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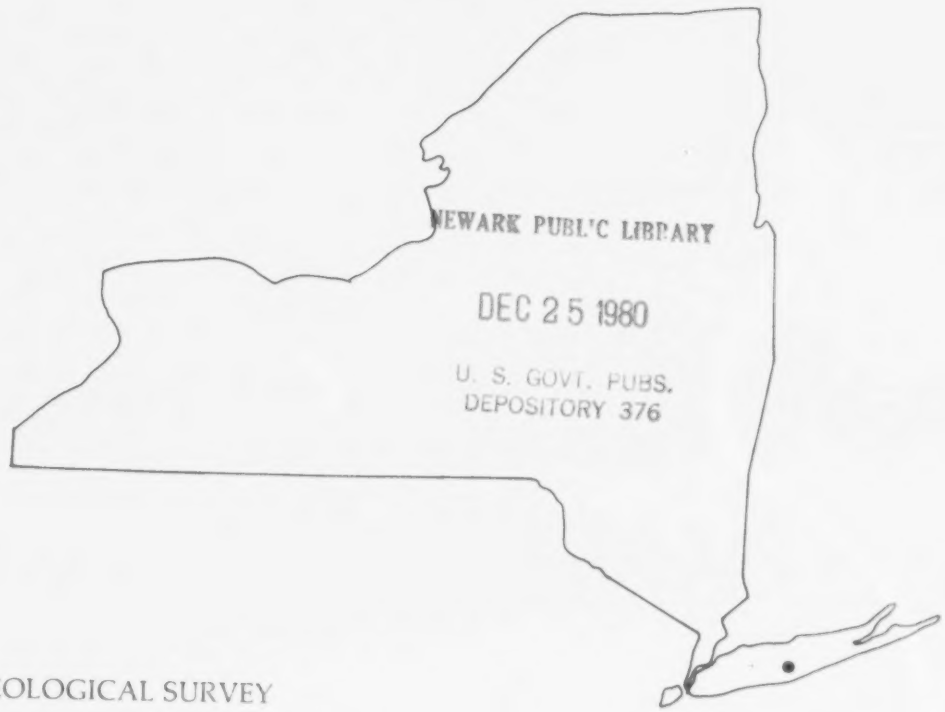
Preliminary Investigation of a Shallow Ground-Water Flow System Associated With Connetquot Brook, Long Island, New York



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Suffolk County Water Authority

I19.42/4

50272-101

REPORT DOCUMENTATION PAGE	1. REPORT NO.	2.	3. Recipient's Accession No.

4. Title and Subtitle

Preliminary investigation of a shallow ground-water flow system associated with Connetquot Brook, Long Island, New York

5. Report Date
November 1980

6.

7. Author(s)
Keith R. Prince

8. Performing Organization Rept. No.
USGS/WRI 80-47

9. Performing Organization Name and Address
U.S. Geological Survey
Water Resources Division
343 U.S. Post Office & Courthouse
Albany, New York 12201

10. Project/Task/Work Unit No.

11. Contract(C) or Grant(G) No.
(C)
(G)

12. Sponsoring Organization Name and Address
U.S. Geological Survey
Water Resources Division
343 U.S. Post Office & Courthouse
Albany, New York 12201

13. Type of Report & Period Covered
Final

14.

15. Supplementary Notes
Prepared in cooperation with the Nassau County Department of Public Works, Suffolk County Department of Health Services, and Suffolk County Water Authority.

16. Abstract (Limit: 200 words) Under natural conditions, about 95 percent of the flow in Long Island streams is derived from ground-water seepage. The ground-water system that feeds the streams is a shallow subsystem that overlies the regional subsurface flow system. The Connetquot Brook basin was selected for study because it has not been appreciably affected by urbanization. Studies in the basin indicate that the shallow ground-water flow system circulates to a depth of less than 30 feet below the stream channel. Directly beneath the stream, shallow ground-water flow is upward toward the stream channel, but elsewhere in the basin it is predominantly horizontal.

Relatively large increases in head with depth in the first 3 feet below the streambed suggest local differences in hydraulic conductivity or in size of area through which the water flows, or both.

Water-table contour maps of the area adjacent to Connetquot River for September 1977 and March 1978 indicate that the shape of the water table and the direction of flow lines change seasonally. Variations in ground-water levels and gradients directly affect the rates of ground-water seepage to the stream.

17. Document Analysis a. Descriptors
Streamflow, Surface-groundwater relationships, Base flow, Basic data collections.

b. Identifiers/Open-Ended Terms
Water table, Gaging station, Wells, Connetquot River, Long Island.

c. COSATI Field/Group

18. Availability Statement	19. Security Class (This Report)	21. No. of Pages
No restriction on distribution	Unclassified	41
	20. Security Class (This Page) Unclassified	22. Price

(See ANSI-Z39.18) See Instructions on Reverse

OPTIONAL FORM 272 (4-77)
(Formerly NTIS-35)
Department of Commerce

PRELIMINARY INVESTIGATION OF A SHALLOW GROUND-WATER FLOW SYSTEM ASSOCIATED WITH CONNETQUOT BROOK, LONG ISLAND, NEW YORK

By Keith R. Prince

U.S. GEOLOGICAL SURVEY

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Nassau County Department of Public Works
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Suffolk County Water Authority

Syosset, New York

November 1980

UNITED STATES DEPARTMENT OF THE INTERIOR

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CONTENTS

	Page
Conversion factors and abbreviations	iv
Abstract	1
Introduction	3
Purpose and Scope	4
Acknowledgments	4
Regional hydrogeology	4
Location and geohydrology of Connetquot basin	6
Ground-water monitoring network	11
Ground-water flow	16
Ground-water seepage rates and gradient	18
Depth of shallow flow system	20
Summary and conclusions	22
References cited	23

ILLUSTRATIONS

		Page
Figure 1.	Map showing major geographic features of Long Island with location of study area and ground-water divide	3
2.	Conceptual cross section of southern half of ground-water reservoir showing three-dimensional flow of stream subsystem and flow of two-dimensional regional system	5
3.	Map showing location of study area in Connetquot Park Preserve	8
4.	Map showing location of ground-water drainage basin and topographic drainage basin of Connetquot River	9
5.	Map showing generalized water-table contours on Long Island	10
6.	Map showing contours on the water table and location of observation wells at Connetquot Brook, September 1977	12
7.	Map showing contours on the water table and location of observation wells and surface-water data-collection stations at Connetquot Brook, March 1978	13
8.	Diagrams showing ground-water flow lines near a gaining stream	16

ILLUSTRATIONS (Continued)

Page

9. Conceptual diagram of the shallow flow system associated with a stream..... 17

10. Graphs showing relationship between ground-water gradient and average water-level and streamflow increase between two stations..... 18

11. Graphs showing relationship between hydraulic head and depth below streambed for three wells..... 19

TABLES

Page

Table 1. Characteristics of three major Long Island streams..... 7

2. Well-completion data on observation wells in Connetquot Park, 1978..... 14

3. Long-term record of water levels in Connetquot Park area.... 24

CONVERSION FACTORS AND ABBREVIATIONS

Multiply inch-pound units	By	To obtain SI units
foot (ft)	0.3048	meter (m)
cubic foot per second (ft^3/s)	0.0283	cubic meter per second (m^3/s)
inch (in)	2.54	centimeter (cm)
mile (mi)	0.0621	kilometer (km)
square mile (mi^2)	2.59	square kilometer (km^2)

PRELIMINARY INVESTIGATION OF A SHALLOW GROUND-WATER FLOW SYSTEM ASSOCIATED WITH CONNETQUOT BROOK, LONG ISLAND, NEW YORK

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ABSTRACT

Under natural conditions, about 95 percent of the flow in Long Island streams is derived from ground-water seepage. The ground-water system that feeds the streams is a shallow subsystem of the regional subsurface flow system. The Connetquot Brook basin was selected for study because it has not been appreciably affected by urbanization. Studies in the basin indicate that the shallow ground-water flow system circulates to a depth of less than 30 feet below the stream channel. Adjacent to the stream, shallow ground-water flow is upward toward the stream channel, but elsewhere in the basin flow is predominantly horizontal.

Relatively large increases in head with depth in the first 3 feet below the streambed suggest local differences in hydraulic conductivity or in size of area through which the water flows.

Water-table contour maps of the area adjacent to Connetquot Brook for September 1977 and March 1978 indicate that the shape of the water table and the direction of flow lines change seasonally. Variations in ground-water levels and gradients directly affect the rates of ground-water seepage to the stream.

INTRODUCTION

Construction of extensive sanitary sewerage in southeastern Nassau County was begun in the 1950's to help protect the ground-water system from septic-waste contamination, which had increased in proportion to population growth. In recent years, water managers and interested public have become concerned about the detrimental effects that the sewerage may have on the ground-water system; the major concern is a predicted decline in the water table throughout the central part of Long Island as wastewater is piped to the sea (Kimmel and others, 1977). Because 95 percent of the streamflow on Long Island is derived from ground-water seepage into stream channels (Pluhowski and Kantrowitz, 1964), a corresponding decline in streamflow is also expected.

The predicted lowering of the water table and the attendant reduction in streamflow have lead to concern over the future of many of Long Island's wetlands and parks, where surface water is an essential component for recreation and wildlife habitat. To safeguard the island's surface-water resources, the magnitude of the expected streamflow reductions must be assessed, and the interaction between surface water and ground water, as well as the factors that control the rate of ground-water discharge, must be understood and quantified.

Connetquot River State Park, in Suffolk County (fig. 1), encompasses more than 5 miles of Connetquot Brook, which is a tributary of the Connetquot River and is maintained as a limited-use preserve. It is an appropriate site for the study of the occurrence and movement of ground water and surface water because it has been protected from the effects of urbanization--a unique situation on Long Island. For these reasons two stream-gaging stations and 40 wells were installed in and near Connetquot Park to study the natural occurrence and movement of water in the Connetquot River Basin.

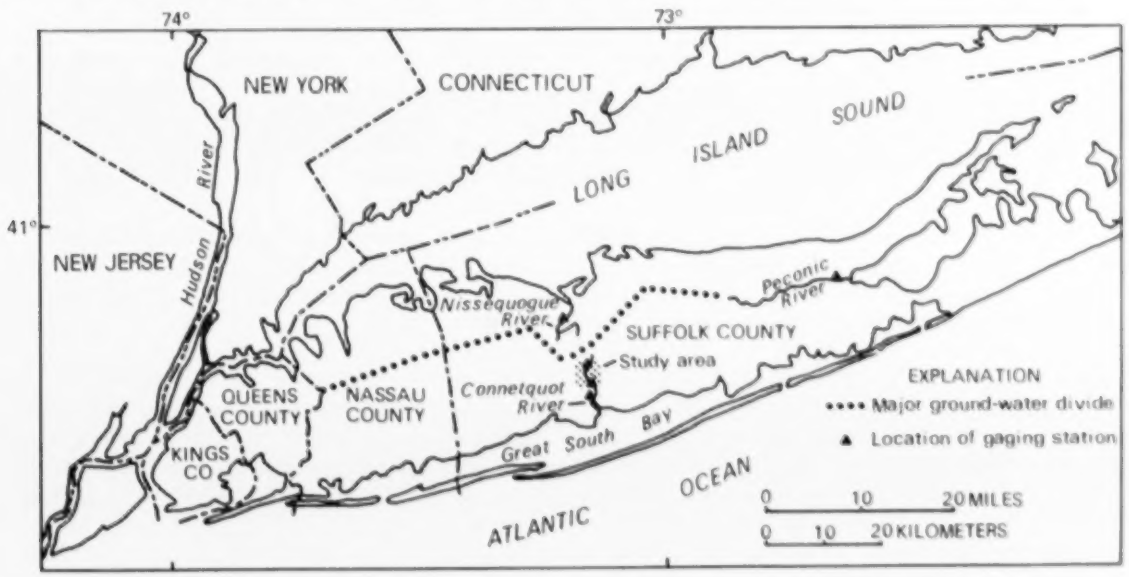


Figure 1. Major geographic features of Long Island, with location of Connetquot River State Park study area and ground-water divide.

Purpose and Scope

The Connetquot Brook study was begun in 1975 and is intended to continue for several years. The objectives of the study are to (1) define the boundaries of the shallow ground-water flow system associated with the stream, (2) delineate the flow patterns in the upper glacial aquifer within the stream basin, and (3) determine how the ground-water boundaries and flow patterns change both areally and temporally. This investigation is being carried out on a smaller scale than other similar studies on Long Island so that the shallow ground-water flow system associated with the stream can be evaluated in detail.

The purpose of this preliminary report is to describe the local hydrologic system and the data-collection network and to explain the methods of data collection. Preliminary data and interpretation of results are also presented. The data obtained during this study will provide a basis for (1) future investigations of ground-water/surface-water relationships during a variety of conditions such as overland runoff and base flow, and (2) the development of a mathematical model of ground-water and surface-water flow to provide a basis for hydrologic investigations.

Acknowledgments

The author is indebted to the Long Island State Park Commission for permitting access to Connetquot River State Park for field operations from 1975 to 1979. In addition, thanks are extended to Robert Ott, General Superintendent for the Long Island State Park Commission, and his staff, for the necessary work permits, and to Gilbert Bergen, Park Superintendent, for cooperation in field operations and well drilling.

REGIONAL HYDROGEOLOGY

The hydrogeology of Long Island has been described in numerous earlier reports such as Cohen, Franke, and Foxworthy (1968) and McClymonds and Franke (1972a). A more detailed description of the region surrounding the Connetquot Park area is given in Pluhowski and Kantrowitz (1964).

Long Island is underlain by unconsolidated sedimentary deposits. The bedrock surface on which they lie slopes gradually to the southeast from near sea level in northwestern Queens County to more than 2,000 feet below sea level in south-central Suffolk County, just south of the study area. The deposits overlying the bedrock surface contain three major aquifers--the Lloyd aquifer, which directly overlies the bedrock surface; the Magothy aquifer, which is separated from the underlying Lloyd aquifer by the Raritan clay; and the upper glacial (water-table) aquifer, which overlies the Magothy aquifer.

Under natural conditions, the fresh ground-water body is recharged solely by precipitation and is discharged through (1) seepage to streams that flow to the ocean, Long Island Sound, and bays surrounding Long Island, (2) subsurface outflow to the surrounding saltwater bodies, and (3) evapotranspiration.

The regional ground-water system of Long Island consists of two subsystems--a north-flowing and a south-flowing subsystem of generally horizontal flow, separated by an east-west-trending rise known as the major ground-water divide, which corresponds approximately to the main topographic divide (fig. 1). About half the precipitation on the island percolates into the aquifer system; the other half evaporates, transpires, or runs off to streams or storm sewers. Most of the water entering the ground-water system moves seaward through the upper glacial aquifer and discharges to streams, bays, and the ocean; the remainder moves downward into the deeper aquifers, from which it eventually discharges to the sea beyond the shores.

Each perennial stream on the island is surrounded and fed by a shallow ground-water flow system that circulates above the regional flow system. Neither the size nor the extent of these shallow systems has been well documented, although a map delineating the probable areal extent of the ground-water-contributing areas of streams in southwest Suffolk County during a low-flow period was recently published (Sulam, 1980). The configuration of a shallow ground-water subsystem associated with streams, and of the regional ground-water flow system described previously, are depicted in cross section in figure 2. A discussion of shallow flow systems on Long Island is given in Harbaugh and Getzen (1977) and Franke and Cohen (1972).

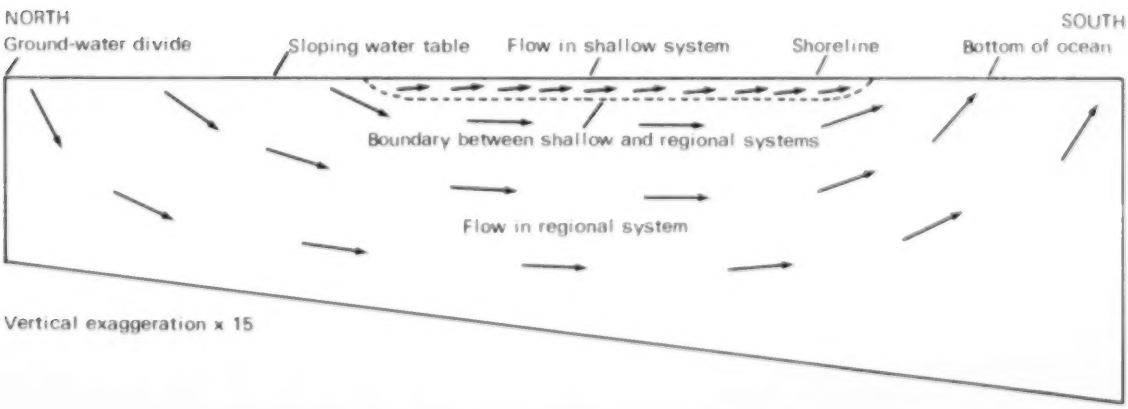


Figure 2.--Conceptual cross section of southern half of ground-water reservoir showing relative size and location of stream subsystem. (Modified from Franke and McClymonds, 1972, fig. 19).

LOCATION AND GEOHYDROLOGY OF CONNETQUOT BASIN

Connetquot Brook, in the south-central part of Suffolk County, begins near Ronkonkoma, just north of the Long Island Expressway (fig. 3). The brook flows more than 5 miles south through the town of Islip to just north of State Route 27, where the name changes to Connetquot River, which also receives water carried by other tributaries such as Rattlesnake Brook and Middle Brook. The River then flows south 2.7 miles to Great South Bay. Connetquot Brook lies within the southern half of a broad topographic valley that stretches from the north shore to the south shore in the central part of the island.

Streamflow originates from three sources--precipitation directly on the stream, overland runoff, and ground-water seepage. The drainage basin of Connetquot Brook (fig. 4) encompasses a 24-mi^2 area (some of which does not actually contribute to streamflow) extending from the south shore of Long Island to the glacial moraine (topographic divide) near the north shore. Included in this area are parts of the towns of Islip, Smithtown, and Brookhaven. The ground-water drainage basin (fig. 4), as determined from water-table contours (Koszalka, 1975), covers a 28-mi^2 area from the south shore to the ground-water divide, slightly south of the topographic divide. This area likewise encompasses parts of the towns of Islip, Smithtown, and Brookhaven. A detailed description of the geohydrology of the area around Connetquot Brook is given by Pluhowski and Kantrowitz (1964).

The following discussion of the geohydrology refers only to the upper glacial aquifer because the shallow stream subsystem under investigation has been assumed to be within 75 feet of land surface and totally within this aquifer (Franke and Cohen, 1972).

The upper glacial aquifer in the Connetquot Brook basin consists of outwash deposits composed of a heterogeneous mixture of fine to very coarse quartzose sands, gravel, pebbles, and boulders. In some places the outwash deposits are interlayered with till composed of a mixture of clay, sand, and gravel. The outwash deposits are moderately to highly permeable, with good to excellent infiltration characteristics. In contrast, the till is characterized by poor permeability and locally impedes the downward movement of water (McClymonds and Franke, 1972b).

The average annual discharge of Connetquot River measured at State Highway 27 (fig. 3) from 1944-79 is 38.2 ft^3/s (U.S. Geological Survey, 1978), which makes it one of the largest streams on Long Island. The stream-channel length, topographic drainage area, ground-water drainage area, and average daily discharge for three major streams on Long Island--Connetquot, Nissequogue, and Peconic Rivers (fig. 1), are listed in table 1. On the basis of discharge, Nissequogue River is the largest, followed by Connetquot and Peconic Rivers. However, when rank is based on other stream characteristics, a different order results. For example, Peconic River is the largest in terms of length and drainage area but has the smallest discharge. Thus, it can be concluded that discharge is not determined by any of these characteristics alone but by a combination of all factors.

The discharge of Connetquot Brook in the south and Nissequogue River in the north are among the largest on Long Island because together they drain a broad topographic valley and the associated ground-water valley between two extensive ground-water mounds (fig. 5).

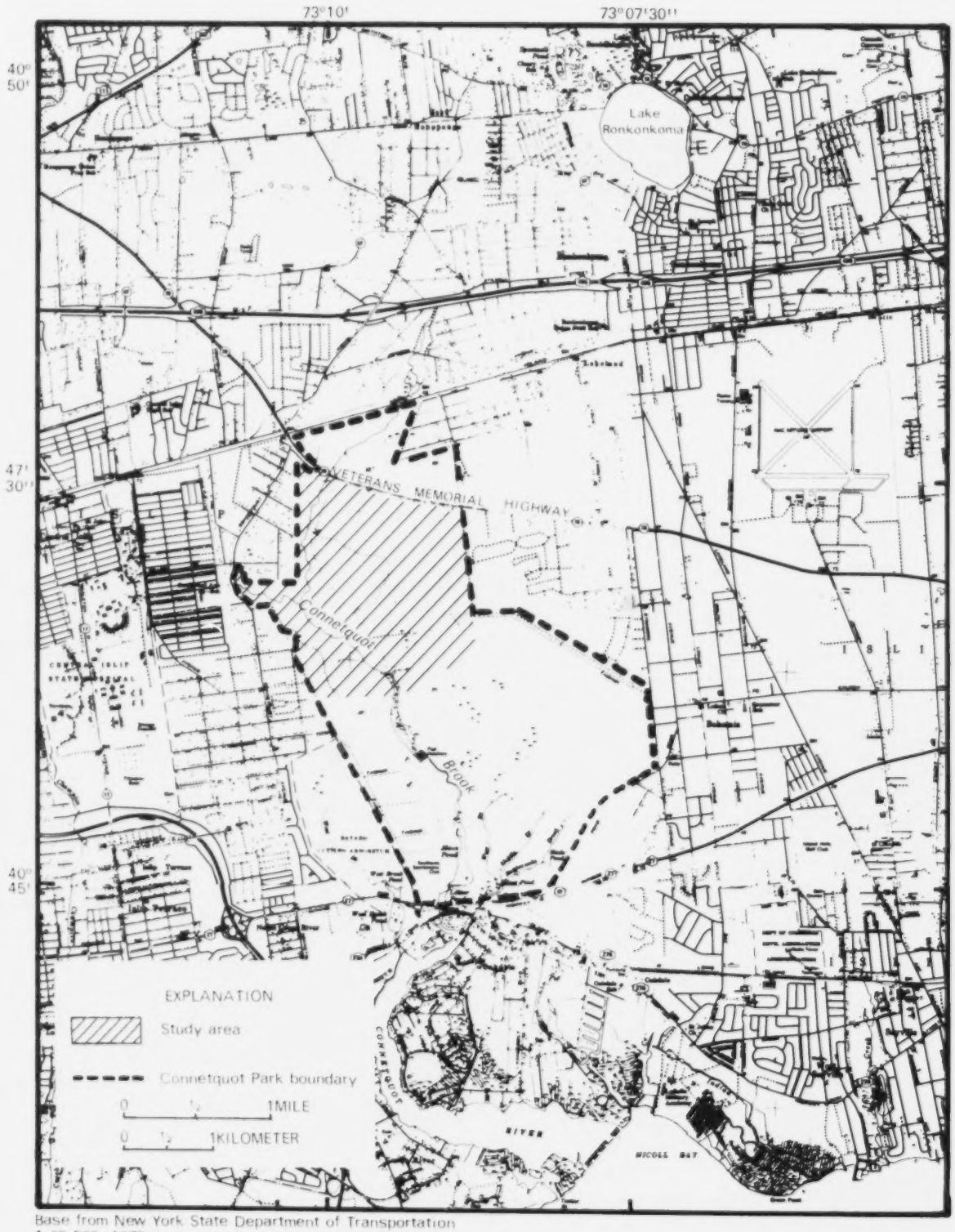
The study area (fig. 3) lies within Connetquot Park Preserve and covers the area from Veterans Memorial Highway to a line 1.75 miles south of it and from 0.75 mile west of Connetquot Brook to 1.2 miles east of it. Although the study area does not encompass the entire stream basin, the reach selected is representative of the entire stream.

Table 1.--Characteristics of three major Long Island streams

Characteristic	Nissequogue River	Connetquot Brook (official name Connetquot River)	Peconic River
Stream-channel length (ft)	57,000	37,000	79,000
Topographic drainage area (mi^2)	27	24	75
Ground-water drainage area (mi^2)	22	28	33
Average annual discharge (ft^3/s)	1/ 40.9	1/ 38.2	2/ 35.2

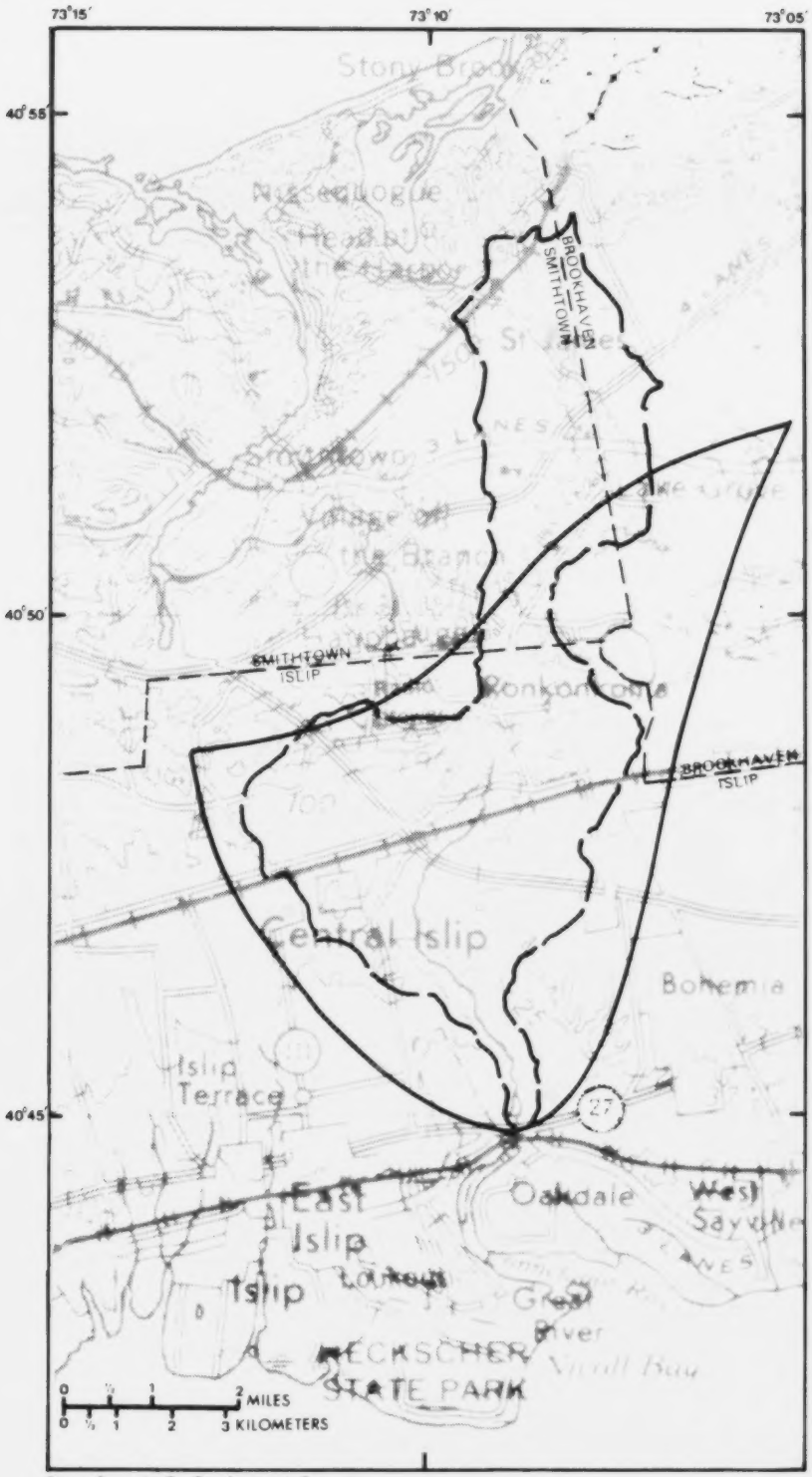
1/ 1944-78

2/ 1943-78



Base from New York State Department of Transportation
1:62,500, 1972

Figure 3.--Location of study area (shaded) in Connetquot State Park Preserve.



Base from U.S. Geological Survey
New York, 1:250,000, 1957

Figure 4.--Location of ground-water drainage basin (solid outline) and topographic drainage basin (dashed outline) of Connetquot Brook.

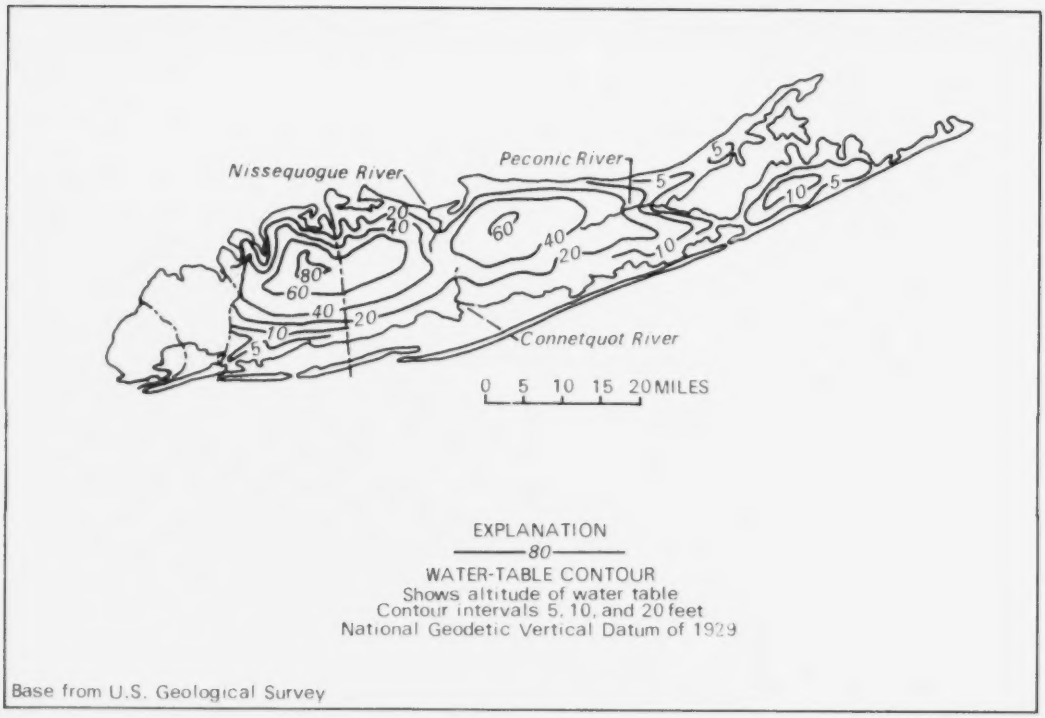


Figure 5.--Generalized water-table contours of Long Island, showing two ground-water mounds flanking Connetquot Brook and Nissequogue River.

GROUND-WATER MONITORING NETWORK

The ground-water monitoring network consists of 40 wells at 22 sites, as shown in figures 6 and 7. Water levels in these wells are measured monthly, except at five wells that are equipped with continuous water-level recorders. From these measurements, monthly and seasonal changes in the altitude of the water table are determined. An example of seasonal changes can be seen by comparing the September 1977 water table (fig. 6) with the March 1978 water table (fig. 7).

Most of the wells were drilled in November 1975; others were added as needed. At sites having more than one well, the wells are screened at different depths. Shallow wells are constructed with the screen intersecting the water table; deeper wells are generally drilled 20 to 40 feet below the water table with the screen at the bottom of the casing. Data on individual wells are given in table 2; the historical records are given in table 3 (at end of report). The wells are so arranged that water levels can be measured and potentiometric lines determined in three dimensions to define the ground-water flow patterns near the stream.

The five wells equipped with continuous water-level recorders are S 57468, S 57469, S 62234, S 62238, and S 65595 (fig. 7). Water levels are recorded on an analog recorder by an electronic water-level-sensing device housed in a steel shelter. The sensing device was necessary because the wells were not of sufficient diameter to accomodate a float for the recorder.

Two of the wells equipped with recorders are wells S 57468 and S 62234--at the same site. This arrangement allows the continual comparison of potentiometric heads at two different depths at the same site, which is 3,750 feet east of the stream. From this information, changes in potential or gradient with depth can be monitored, and the effects of precipitation as well as climatic and seasonal changes can be studied.

The three other wells equipped with recorders are arranged in a line perpendicular to the direction of streamflow at various distances from the stream. Well S 65595 (depth 3.8 ft) is 6 feet from the edge of the stream, S 62238 (depth 42 ft) 26 feet, and S 57462 (depth 12.8 ft) 220 feet. These three wells, together with a stream-stage recorder, allow examination of bank-storage changes and water-table gradients to the stream. This record is useful in evaluating hydrologic properties during extreme conditions such as base flow, storms, and flood recession.

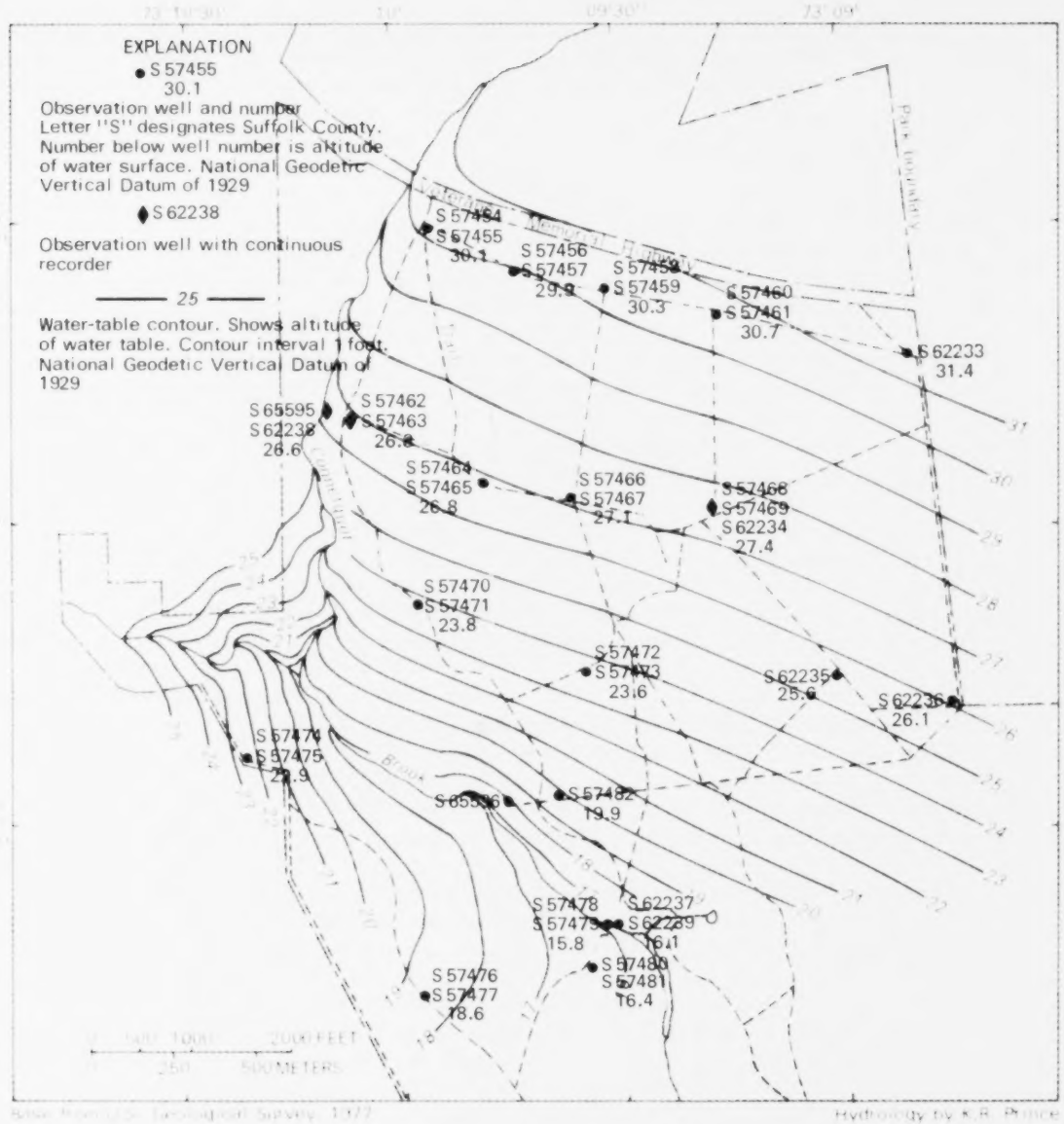


Figure 6.--Contour map of the water table, and location of observation wells at Connetquot Brook, September 1977.

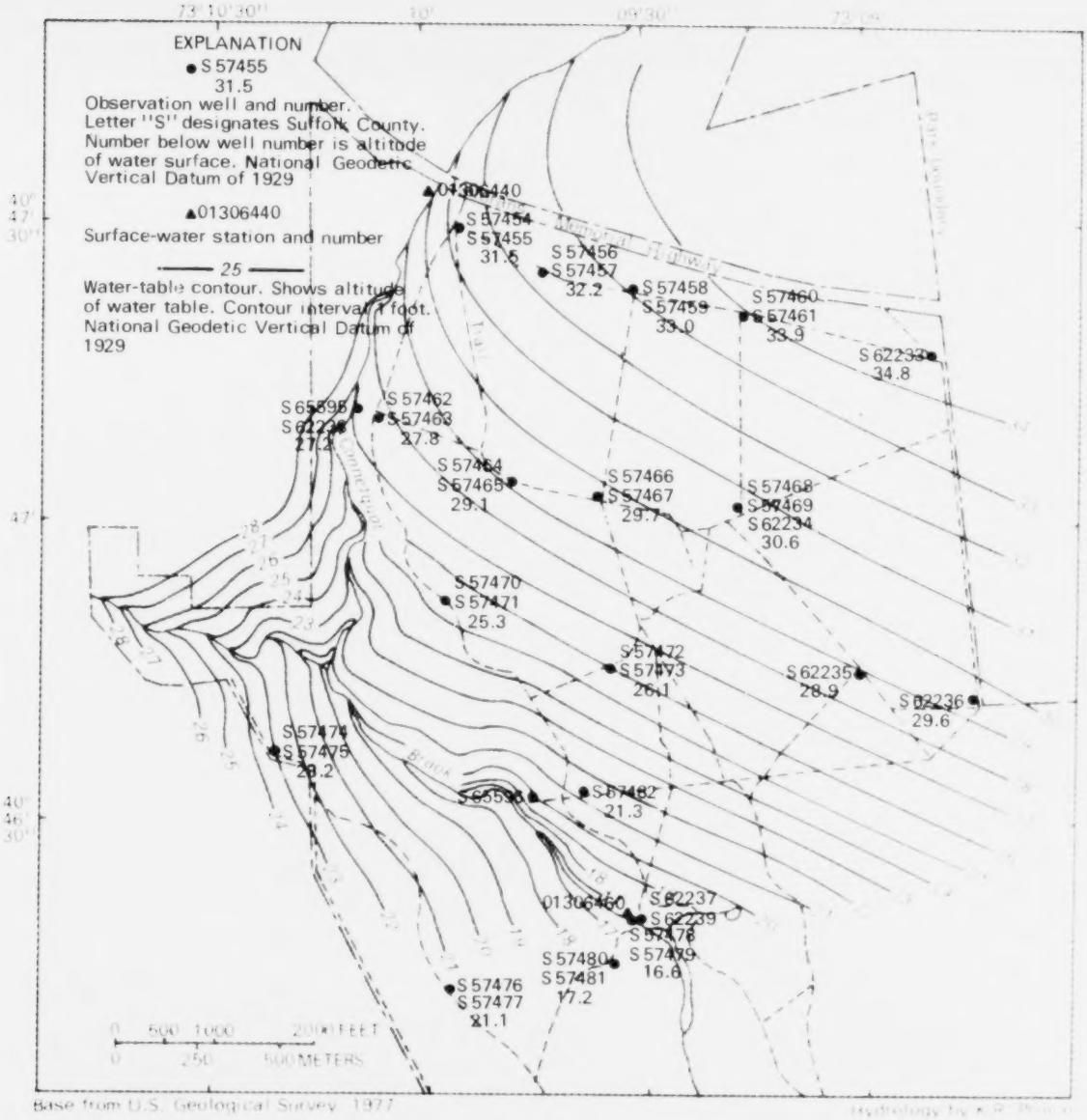


Figure 7.--Contour map of the water table, and location of observation wells and surface-water data collection stations at Connetquot Brook, March 1978.

Table 2.--Well-completion data on observation wells in Connetquot Park, 1978.

[Well locations are shown in figs. 6 and 7]

Well number	Well depth (ft)	Length of screen (ft)	Center of screen (ft above (+) or below (-) NVGD)
S-10230	45.0	15	4.7
S-10235	45.0	15	- .4
S-57454	11.8	8	30.4
S-57455	32.9	4	6.7
S-57456	13.6	8	29.8
S-57457	28.8	4	12.2
S-57458	25.5	8	26.9
S-57459	30.9	4	19.6
S-57460	24.1	4	30.2
S-57461	43.5	4	10.5
S-57462	12.8	4	22.1
S-57463	31.3	4	3.6
S-57464	13.8	4	24.9
S-57465	32.6	4	5.9
S-57466	12.9	8	23.5
S-57467	51.3	4	-17.0
S-57468	23.5	4	27.8
S-57469	44.0	4	7.3
S-57470	13.3	4	18.2
S-57471	27.0	4	4.6

Table 2.--Well-completion data on observation wells in Connetquot Park, 1978

(continued)

Well number	Well depth (ft)	Length of screen (ft)	Center of screen (ft above (+) or below (-) NVGD)
S-57472	12.8	4	22.7
S-57473	31.9	4	4.0
S-57574	13.5	4	20.1
S-57475	34.5	4	- 0.9
S-57476	33.8	8	14.1
S-57477	54.6	4	- 4.0
S-57478	6.8	1	11.9
S-57479	10.6	1	7.7
S-57480	14.0	4	8.7
S-57481	27.9	4	- 6.0
S-57482	17.1	4	10.2
S-62233	45	3	11.9
S-62234	62	3	-11.5
S-62235	41.5	3	- 2.0
S-62236	42	2	- 1.0
S-62237	44	3	-24.8
S-62238	42	3	-11.4
S-62239	5	0.5	14.0
S-65595	3.8	1	25.2
S-65596	5.3	1	18.4

GROUND-WATER FLOW

Superimposed upon the regional flow system are shallow-flow subsystems that drain to the streams. Water-table elevations and flow within the subsystems are interrelated with the potentiometric heads in the regional system. The subsystem differs from the regional system only in that its flow remains at shallow depths and discharges to the streams; flow in the regional system moves to greater depths and discharges to the bays and ocean. The flow patterns in a shallow subsystem, as currently understood, are depicted in figure 8.

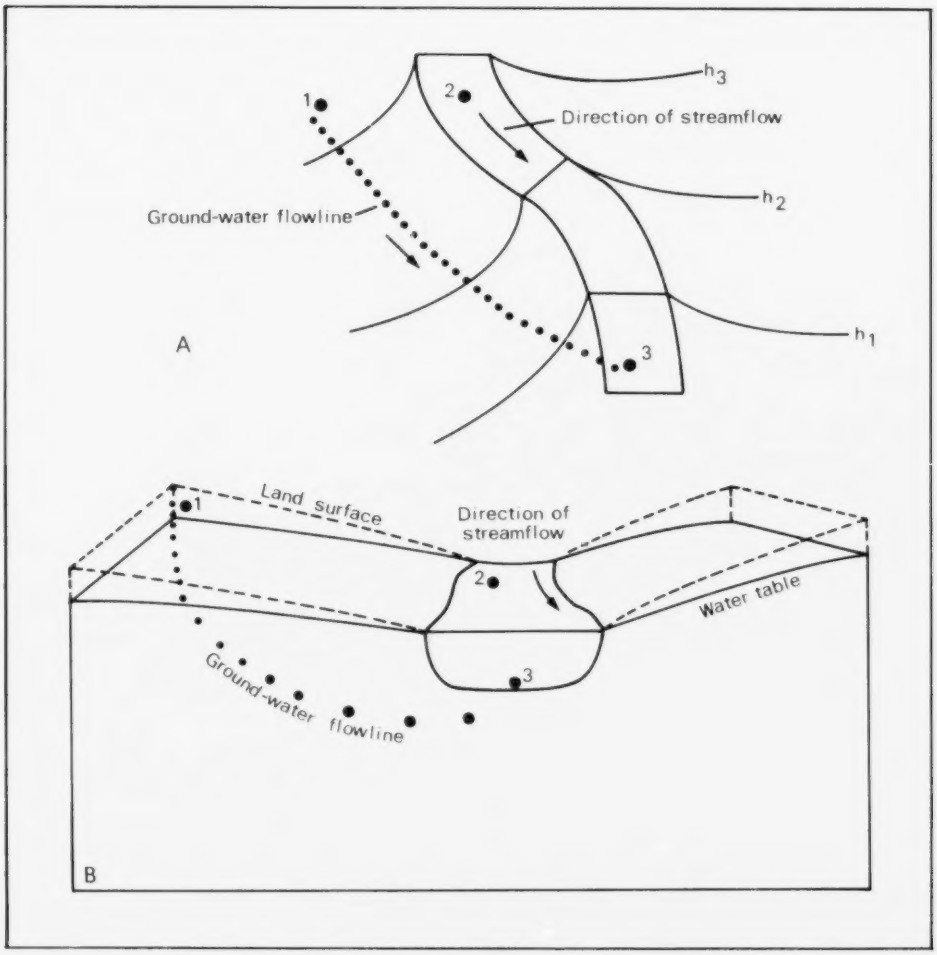


Figure 8.--Direction of ground-water movement near a gaining stream: (A) from above, (B) in three dimensions. Water moves along a path from point 1 to point 3 rather than directly toward the stream from point 1 to point 2. In (A), lines h_1, h_2, and h_3 are ground-water equipotential contours. They are not shown in (B) because in three dimensions they would be complex surfaces. (From Harbaugh and Getzen, 1977, fig. 1).

Each subsystem is bounded laterally by interstream ground-water divides as shown in figure 9. Above the headwaters of the stream is a flow boundary. Above this flow boundary water enters the regional flow system; below it water enters the shallow flow system associated with a stream. The flow boundary is formed by the upper end of a group of ground-water flow-lines that can be visualized as a surface extending beneath the stream and along the bottom of the shallow streamflow system, as shown in figure 9.

The principal factors controlling the direction of ground-water movement are the hydraulic gradient and variations in hydraulic conductivity. All ground-water movement is from areas of higher to lower hydraulic head. In an isotropic aquifer, it is always perpendicular to lines of equal potential, as indicated in figure 8A. However, the upper glacial aquifer is anisotropic, and hydraulic conductivity in the horizontal plane is much greater than in the vertical plane, so that flow is perpendicular to lines of equal potential only in the horizontal plane. From the water-table contours within a few hundred feet of the stream (figs. 6 and 7), it can be seen that the flow lines must bend directly toward the stream if flow is only horizontal. However, because flow in the stream subsystem is three dimensional--that is, vertical as well as horizontal (figs. 8 and 9), a drop of water falling at point 1 in figure 8B would move not only laterally toward the stream but vertically as well and would enter the stream not at point 2 but farther downstream at point 3.

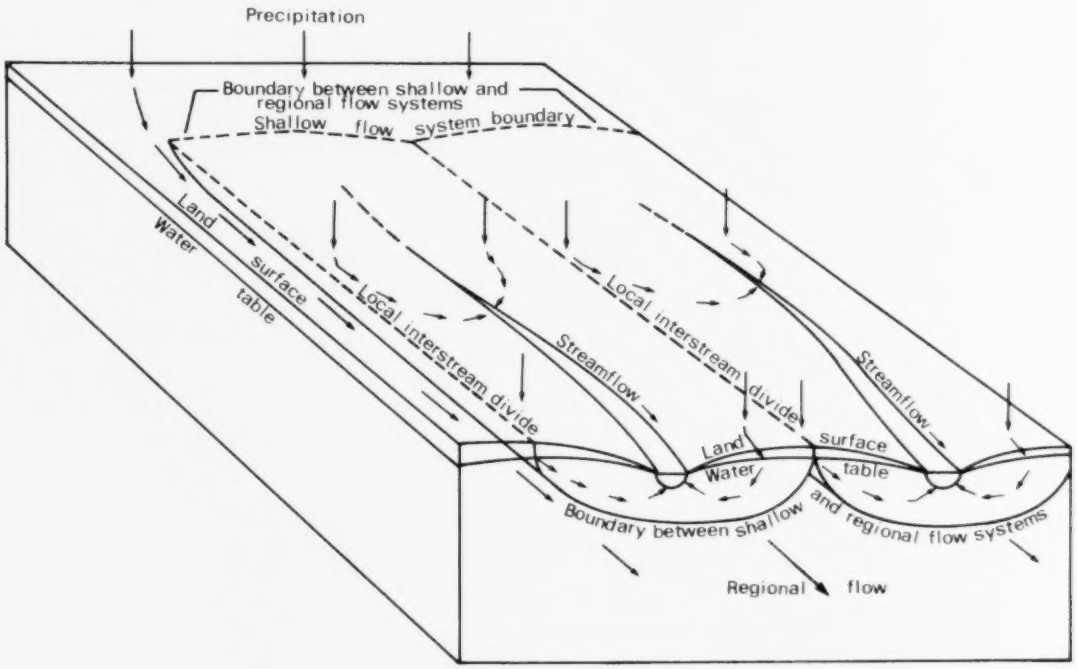


Figure 9.--Shallow flow systems associated with two adjacent stream basins. An imaginary surface beneath each stream separates shallow ground-water flow to the stream from the regional ground-water flow.

Ground-Water Seepage Rates and Gradient

Seepage rates to the stream are directly related to ground-water gradient near the stream, as indicated in figure 10. Gradient is the change in hydraulic head across a unit length of aquifer; discharge per unit area of aquifer is directly proportional to the gradient.

Graphs 10A and 10B show the gradient between two pairs of wells--S 57468 and S 57482, and S 57472 and S 57482--plotted against the increase in streamflow between the two gaging stations at each end of the study area, 01306440 and 01306460. (Locations of gaging stations and wells are shown in fig. 7.) These wells were chosen because they lie approximately along ground-water flow lines that intersect the stream. To accurately determine the relationship between gradient and discharge, one must measure the gradient along a ground-water flow line. Similarly, graph 10C shows the average water level in wells S 57454, S 57456, S 57458, S 57460, S 57462, S 57470, and S 57482 plotted against the increase in streamflow throughout the reach. The average water-level fluctuations are greater than the stream-stage fluctuations, which results in continuous change in ground-water gradient toward the stream.

As gradient toward the stream increases, the seepage rate along that reach of stream increases. The graphical relationship of these two factors is good, with relatively little scatter about the regression line (fig. 10). However, the small degree of scatter suggests that some other factors must be affecting seepage rates. One possibility is that the depth of ground-water flow in the shallow flow system varies, which would change the size of the area through which the water must flow to enter the stream. This could happen during a recharge episode, wherein streamflow is augmented from increased baseflow as well as overland runoff; the increase in baseflow would be accompanied by a "deepening" of the shallow ground-water flow system discharging to the stream. Similarly, the area of flow decreases during various stages of ground-water recession.

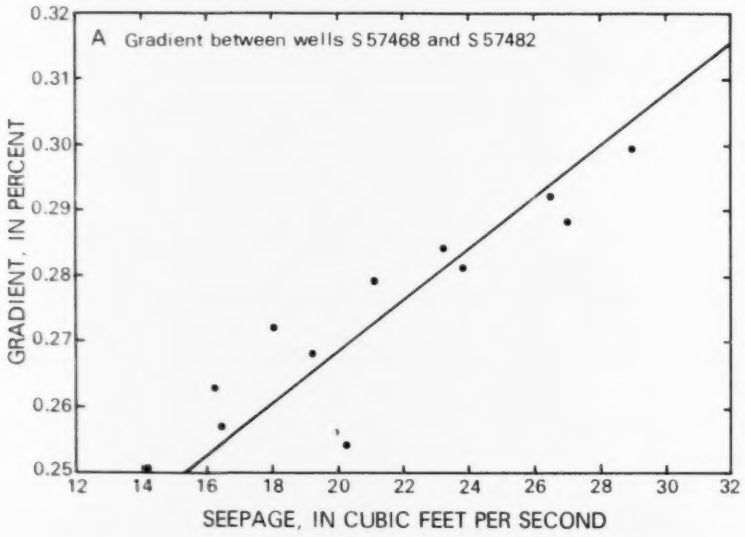
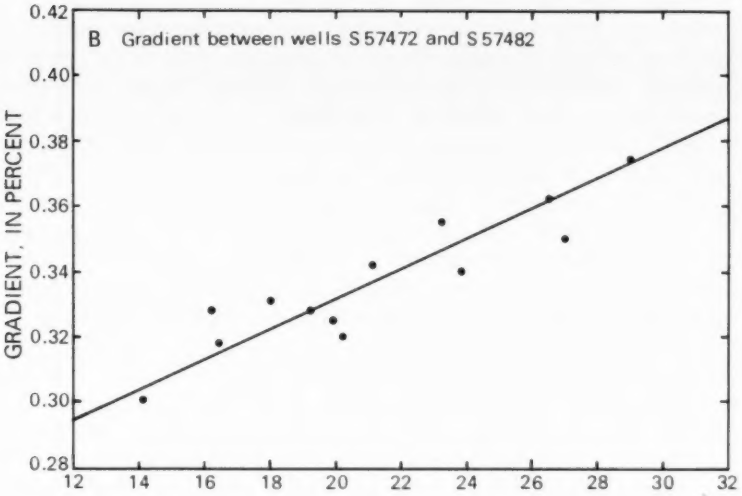


Figure 10.--(A) Relationship between ground-water gradient and streamflow increase between two gaging stations.



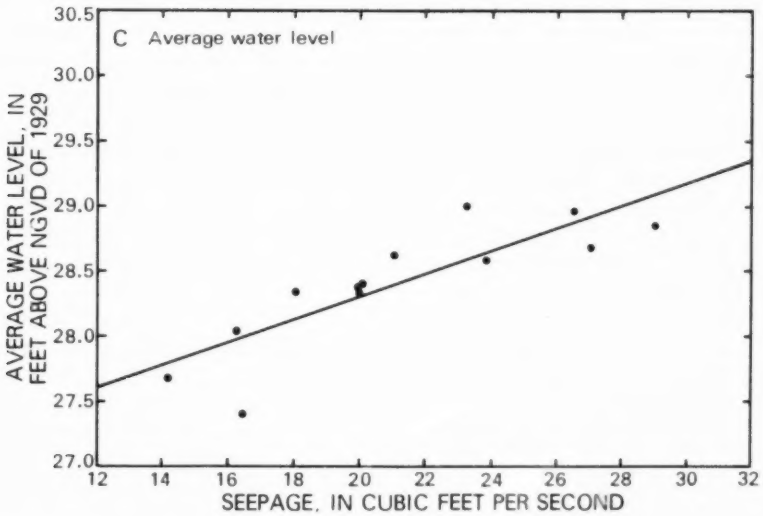


Figure 10 (continued).--(B) Relationship between ground-water gradient and streamflow increase between two gaging stations. (C) Relationship between average water level in seven wells and streamflow increase between two gaging stations. (Location of wells and gaging stations is shown in fig. 7.)

Depth of Shallow Flow System

During a 3-day period in 1978, three wells were driven to determine the depth of the shallow flow system beneath the stream near well S 65595, in the north-central part of the stream reach studied. One well was driven directly into the streambed, one at the stream bank 19 feet west of the stream centerline, and one 47 feet west of the bank. A routine was followed consisting of alternately driving the well, pumping the well, and measuring the water level after it had returned to its static level during that drilling interval. At depths where the head change was relatively large, measurements were taken at 1-foot depth intervals; where the head change was relatively small, the intervals were increased to 5 feet. A graph of head change with depth in the three wells is shown in figure 11. All water levels were referred to National Geodetic Vertical Datum (NGVD of 1929).

In the streambed and streambank wells, the head, as indicated by water levels, rose sharply 0.7 feet above stream surface within the first 3 feet. From 3 feet to 24 feet, the head in the streambed well rose more slowly, by 0.3 feet. Similarly, head at the streambank well rose about 0.3 feet between the depth of 3 feet and 30 feet. Below these depths, the head did not change significantly, which indicates that ground-water flow below 30 feet was horizontal. The third well, 47 feet east of the stream, showed no significant change in head with depth, which indicates that ground-water movement was horizontal even at shallow depths.

The graph of hydraulic head against depth (fig. 11) indicates a large increase in gradient within 3 feet of the streambed. The increase in vertical hydraulic gradient under the streambed is probably due to a decrease in hydraulic conductivity of sediments adjacent to the bottom of the stream and to the restriction in flow area near the stream channel.

The point below which the hydraulic head no longer changes with depth is where the ground-water flow becomes horizontal. Horizontal flow lines do not intersect the streams; therefore, the point at which flow becomes essentially horizontal is regarded as the bottom of the shallow flow subsystem. The data points in figure 11 indicate that the shallow flow system does not extend more than 30 feet beneath the streambed.

The network of wells away from the Connetquot Brook and throughout the park provides data on hydraulic head in relation to depth. Two or three wells were drilled to different depths at each site to examine the head distribution with depth. The water-level data (table 3, at end of report) indicate no consistent change in head with depth; this indicates that ground water in the Connetquot Brook basin moves horizontally except in the area adjacent to Connetquot Brook.

The depth of the shallow flow subsystem is not constant; it will change in response to the water levels about the stream and the overall gradient to the stream.

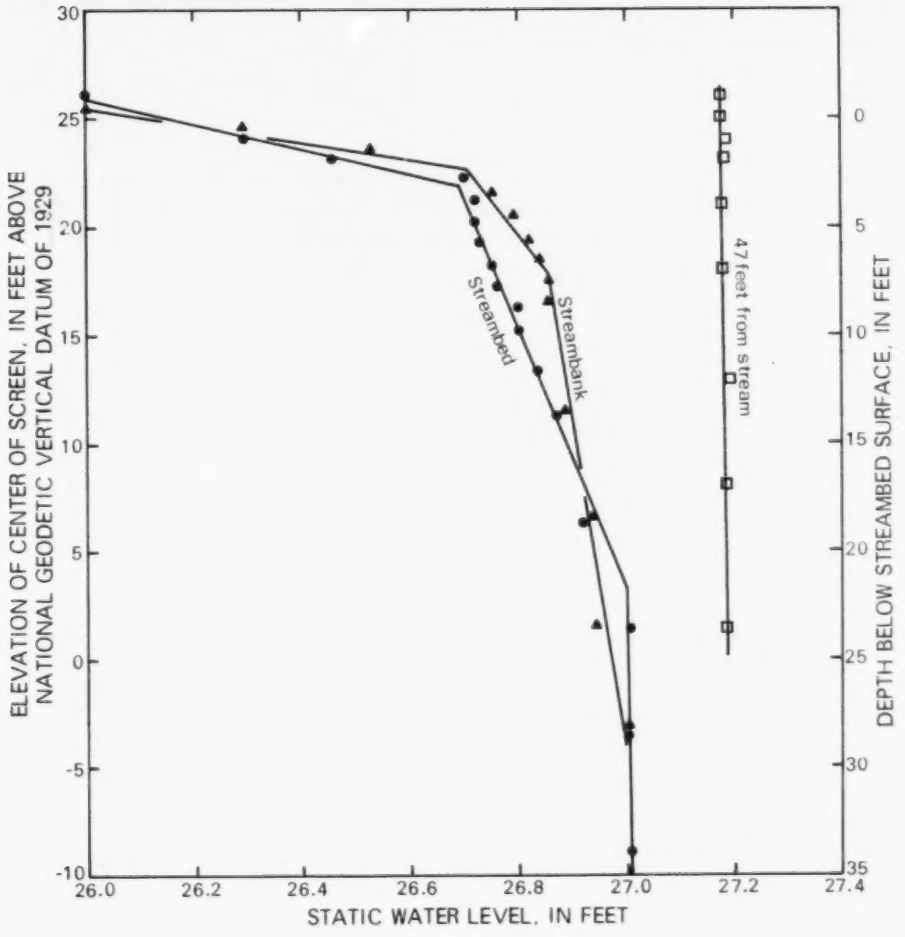


Figure 11.--Relationship between hydraulic head and depth below streambed at wells in streambed, at stream bank, and 47 feet west of stream.

SUMMARY AND CONCLUSIONS

The long-term effects of Long Island's sanitary and storm sewers on ground-water levels, surface-water bodies, and wetlands has become of concern to local water managers. Although the principal goal of water management is to provide an adequate supply of fresh drinking water, preservation of the surface waters and wetlands is also desirable to management. Before water-management alternatives can be evaluated, more information about the interaction between the ground-water reservoir and surface-water bodies is needed. The principal objective of the Connetquot Brook study is to increase the understanding of Long Island's complex ground-water/surface-water system by examining in detail a small undisturbed stream reach and basin.

Stream seepage is directly related to ground-water gradients near the stream. As water-level head and gradients increase, stream-seepage rates also increase. However, a scatter in the plotted data suggests that factors other than head and gradient have some effect on seepage rates.

Three wells were driven to obtain head measurements at predetermined depths to delineate the flow lines to the stream. One of these wells was driven directly into the streambed and indicated a maximum rise in hydraulic head of about 1 foot. Of this total, 0.7 foot of rise occurred in a 3-foot zone directly below the streambed, and the remaining 0.3-foot increase was between a depth of 3 feet and 24 feet. Changes in hydraulic gradient with depth near the stream indicate changes in the hydraulic conductivity of the aquifer near the streambed, in the streambed cross-sectional flow area, or both.

The second well was driven into the right (west) streambank 19 feet from the stream centerline, and the third well was driven 47 feet west of the stream. The streambank well and the streambed well exhibited similar characteristics; however, the zone of upward movement beneath the streambed was no deeper than 24 feet below stream surface, whereas at the streambank it extended to 30 feet. The well farthest from the stream showed no increase in head from the surface to a depth of 24 feet, which indicates essentially horizontal ground-water movement beyond a few tens of feet from the stream. Below about 24 feet beneath the streambed, ground water no longer moves upward to discharge to the stream; this point is thus regarded as the lower boundary of the shallow flow system.

Forty wells have been drilled at 22 different sites, and five continuous water-level recorders have been installed to monitor fluctuations in ground-water levels. Water levels measured in observation wells screened at different depths throughout the study area indicate that ground-water movement is essentially horizontal except near the streambed. Further study is needed to determine the depth and lateral extent of changes in the shallow flow system in response to variations in hydrologic conditions.

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Table 3.--Long-term record of water levels in Connetquot Park area

[Measurements by U.S. Geological Survey. Most well locations are shown in figs. 6 and 7.]

Well S 10230

404721073102001. Local number, S 10230.
LOCATION.--Lat 40°47'21", long 73°10'20", Southwest corner of Pine edge Avenue and Connetquot Avenue, Islip.
Owner: Islip Board of Fire Commissioners.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled fire protection water-table well, diameter 4 in (0.1 m), depth 43.5 ft (13.2 m), screen assumed at bottom.
DATUM.--Land-surface datum is 40.59 ft (12.4 m) National Geodetic Vertical Datum of 1929. Measuring point: Outside edge of hose connection, 1.6 ft (0.49 m) above land-surface datum.
PERIOD OF RECORD.--March 1958 to March 1959, May 1978 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 35.33 ft (10.77 m) NGVD, May 27, 1958; lowest measured, 33.75 ft (10.29 m) NGVD, Feb. 26, 1959.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 12, 1958	34.09	JULY 31, 1958	34.48	JAN. 29, 1959	33.79	JULY 25, 1978	34.37
MAR. 27, 1958	34.74	AUG. 27, 1958	34.35	FEB. 26, 1959	33.75	AUG. 29, 1978	34.78
APR. 30, 1958	35.02	SEPT 29, 1958	34.31	MAR. 30, 1959	34.00	SEPT 29, 1978	34.47
MAY 27, 1958	35.33	OCT. 30, 1958	34.45	MAY 23, 1978	34.96		
JUNE 27, 1958	34.90	DEC. 31, 1958	33.86	JUNE 26, 1978	34.63		

Well S 10235

404700073092301. Local number, S 10235.
LOCATION.--Lat 40°47'00", long 73°09'23", East of intersection of Deer Path Road and Sportsman Street, Islip.
Owner: Islip Board of Fire Commissioners.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled fire-protection water-table well, diameter 4 in (0.1 m), depth 43.5 ft (13.2 m), screen assumed at bottom.
DATUM.--Land-surface datum is 35.57 ft (10.8 m) National Geodetic Vertical Datum of 1929. Measuring point: Outside edge of hose connection, 1.5 ft (0.46 m) above land-surface datum.
PERIOD OF RECORD.--May 1978 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.01 ft (8.54 m) NGVD, May 23, 1978; lowest measured, 27.59 ft (8.41 m) NGVD, Sept. 29, 1978.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 23, 1978	28.01	JULY 25, 1978	27.65	SEPT 29, 1978	27.59		
JUNE 23, 1978	27.73	AUG. 29, 1978	27.88				

Well S 36143

404656073081401. Local number, S 36143.
LOCATION.--Lat 40°46'56", long 73°08'14", South side of 7th Street, near entrance to Connetquot High School, Islip.
Owner: Town of Islip.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (0.05 m), depth 62.5 ft (19 m), screen assumed at bottom.
DATUM.--Land-surface datum is 72.4 ft (22.1 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of 2 in (0.05 m) coupling, 0.07 ft (0.02 m) below land-surface datum.
PERIOD OF RECORD.--October 1969 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.63 ft (10.56 m) NGVD, July 9, 1973; lowest measured 29.93 ft (9.12 m) NGVD, Oct. 29, 1969.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 29, 1969	29.93	OCT. 5, 1972	31.57	JULY 9, 1974	32.72 G	JUNE 24, 1975	33.18
MAR. 10, 1970	31.45	JAN. 4, 1973	32.68	JULY 16, 1974	34.29	SEPT 30, 1975	32.37
SEPT 8, 1970	30.56	APR. 5, 1973	34.07	AUG. 16, 1974	31.98 G	AUG. 3, 1978	33.76
MAR. 15, 1971	30.31	JULY 9, 1973	34.63	SEPT 16, 1974	31.60	AUG. 29, 1978	33.83
SEPT 24, 1971	30.91	AUG. 14, 1973	34.08 G	NOV. 25, 1974	31.10 G	SEPT 29, 1978	33.48
DEC. 20, 1971	30.10	DEC. 28, 1973	32.31	DEC. 19, 1974	31.25		
MAR. 27, 1972	30.14	APR. 3, 1974	31.30	FEB. 21, 1975	31.92 G		
JULY 25, 1972	30.35	JUNE 10, 1974	33.14 G	MAR. 31, 1975	32.54		

G MEASUREMENT BY ANOTHER AGENCY

Table 3.--Long-term record of water levels in Connetquot Park area (continued)

Well S 57454

404729073095701.--Local number, S 57454.
LOCATION.--Lat 40°47'29", long 73°09'57", Connetquot Park, doublet with S 57455.
Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (0.05 m), depth 11.8 ft (3.6 m), screened 3.8 to 11.8 ft (1.2 to 3.6 m).
DATUM.--Land-surface datum is 36.4 ft (11.1 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of 2 in (0.05 m) coupling, 0.13 ft (0.04 m) below land-surface datum.
PERIOD OF RECORD.--January 1976 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 31.49 ft (9.60 m) NGVD, Mar. 31, 1978; lowest measured, 30.03 ft (9.15 m) NGVD, Aug. 16, 1977.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 15, 1976	31.07	FEB. 8, 1977	30.28	JULY 27, 1977	30.03	DEC. 20, 1977	30.86
APR. 2, 1976	31.06	MAR. 3, 1977	30.43	AUG. 16, 1977	30.02	MAR. 31, 1978	31.49
JUNE 23, 1976	30.61	APR. 4, 1977	30.71	AUG. 24, 1977	30.10	MAY 2, 1978	31.08
SEPT 1, 1976	30.54	MAY 3, 1977	30.51	SEPT 22, 1977	30.07	MAY 23, 1978	31.28
SEPT 30, 1976	30.41	MAY 31, 1977	30.51	OCT. 13, 1977	30.26	JUNE 26, 1978	30.98
NOV. 4, 1976	30.54	JUNE 14, 1977	30.32	OCT. 26, 1977	30.39	JULY 25, 1978	30.83
NOV. 30, 1976	30.28	JUNE 21, 1977	30.21	NOV. 22, 1977	30.50	AUG. 29, 1978	31.10
JAN. 7, 1977	30.33	JULY 20, 1977	30.03	DEC. 14, 1977	30.76	SEPT 29, 1978	30.93

Well S 57455

404729073095702. Local number, S 57455.
LOCATION.--Lat 40°47'29", long 73°09'57", Connetquot Park, doublet with S 57454.
Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (0.05 m), depth 32.9 ft (10.0 m), screened 28.9 to 32.9 ft (8.8 to 10.0 m).
DATUM.--Land-surface datum is 36.1 ft (11.0 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of 2 in (0.05 m) coupling, 0.12 ft (0.04 m) below land-surface datum.
PERIOD OF RECORD.--January 1976 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 31.49 ft (9.60 m) NGVD, Mar. 31, 1978; lowest measured, 30.00 ft (9.14 m) NGVD, Aug. 16, 1977.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 15, 1976	31.06	FEB. 8, 1977	30.26	JULY 27, 1977	30.01	DEC. 20, 1977	30.85
APR. 2, 1976	31.08	MAR. 3, 1977	30.42	AUG. 16, 1977	30.00	MAR. 31, 1978	31.49
JUNE 23, 1976	30.62	APR. 4, 1977	30.69	AUG. 24, 1977	30.07	MAY 2, 1978	31.08
SEPT 1, 1976	30.55	MAY 3, 1977	30.49	SEPT 22, 1977	30.05	MAY 23, 1978	31.29
SEPT 30, 1976	30.42	MAY 31, 1977	30.32	OCT. 13, 1977	30.23	JUNE 26, 1978	30.98
NOV. 4, 1976	30.54	JUNE 14, 1977	30.31	OCT. 26, 1977	30.36	JULY 25, 1978	30.84
NOV. 30, 1976	30.37	JUNE 21, 1977	30.23	NOV. 22, 1977	30.48	AUG. 29, 1978	31.11
JAN. 7, 1977	30.30	JULY 20, 1977	30.02	DEC. 14, 1977	30.76	SEPT 29, 1978	30.94

Well S 57456

404723073094401. Local number, S 57456.
LOCATION.--Lat 40°47'23", long 73°09'44", Connetquot Park, doublet with S 57457.
Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (0.05 m), depth 13.6 ft (4.1 m), screened 5.6 to 13.6 ft (1.7 to 4.1 m).
DATUM.--Land-surface datum is 37.8 ft (11.5 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of 2 in (0.05 m) coupling, 1.58 ft (0.48 m) above land-surface datum.
PERIOD OF RECORD.--January 1976 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 32.18 ft (9.80 m) NGVD, Mar. 31, 1978; lowest measured, 29.90 ft (9.11 m) NGVD, Aug. 16, 1977.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 15, 1976	31.53	FEB. 8, 1977	30.30	AUG. 16, 1977	29.90	MAR. 31, 1978	32.18
APR. 2, 1976	31.43	MAR. 3, 1977	30.56	AUG. 24, 1977	29.96	MAY 2, 1978	31.44
JUNE 23, 1976	30.78	APR. 4, 1977	31.01	SEPT 22, 1977	29.91	MAY 23, 1978	31.78
SEPT 1, 1976	30.67	MAY 3, 1977	30.71	OCT. 13, 1977	30.22	JUNE 26, 1978	31.25
SEPT 30, 1976	30.43	MAY 31, 1977	30.46	OCT. 26, 1977	30.41	JULY 25, 1978	31.00
NOV. 4, 1976	30.63	JUNE 21, 1977	30.31	NOV. 22, 1977	30.66	AUG. 29, 1978	31.35
NOV. 30, 1976	30.39	JULY 20, 1977	30.00	DEC. 14, 1977	31.14	SEPT 29, 1978	31.08
JAN. 7, 1977	30.34	JULY 27, 1977	29.95	DEC. 20, 1977	31.25		

Table 3.--Long-term record of water levels in Connetquot Park area (continued)

Well S 57457

404723073094402. Local number, S 57457.
LOCATION.--Lat 40°47'23", long 73°09'44", Connetquot Park, doublet with S 57456.
Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (0.05 m), depth 28.8 ft (8.7 m), screened 24.8 to 28.8 ft (7.6 to 8.7 m).
DATUM.--Land-surface datum is 37.8 ft (11.5 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of 2 in (0.05 m) coupling, 1.22 ft (0.37 m) above land-surface datum.
PERIOD OF RECORD.--January 1976 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 32.18 ft (9.81 m) NGVD, Mar. 31, 1978; lowest measured, 29.89 ft (9.11 m) NGVD, Aug. 16, 1977.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 15, 1976	31.44	FEB. 8, 1977	30.30	AUG. 16, 1977	29.89	DEC. 20, 1977	31.24
APR. 20, 1976	31.44	MAR. 3, 1977	30.56	AUG. 24, 1977	29.97	MAR. 31, 1978	32.18
JUNE 23, 1976	30.78	APR. 4, 1977	31.02	SEPT 20, 1977	29.92	MAY 2, 1978	31.46
SEPT 1, 1976	30.69	MAY 3, 1977	30.70	SEPT 22, 1977	29.92	MAY 23, 1978	31.79
SEPT 30, 1976	30.45	MAY 31, 1977	30.50	OCT. 13, 1977	30.23	JUNE 26, 1978	31.28
NOV. 4, 1976	30.63	JUNE 21, 1977	30.42	OCT. 26, 1977	30.42	JULY 25, 1978	31.02
NOV. 30, 1976	30.37	JULY 20, 1977	30.00	NOV. 22, 1977	30.66	AUG. 29, 1978	31.37
JAN. 7, 1977	30.33	JULY 27, 1977	29.94	DEC. 14, 1977	31.16	SEPT 29, 1978	31.08

Well S 57458

404722073093401. Local number, S 57458.
LOCATION.--Lat 40°47'22", long 73°09'34", Connetquot Park, doublet with S 57459. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (0.05 m), depth 25.5 ft (7.8 m), screened 17.5 to 25.5 ft (5.3 to 7.8 m).
DATUM.--Land-surface datum is 47.4 ft (14.4 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of 2 in (0.05 m) coupling, 1.0 ft (0.3 m) above land-surface datum.
PERIOD OF RECORD.--January 1976 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 33.06 ft (10.08 m) NGVD, Mar. 21, 1978; lowest measured, 30.32 ft (9.24 m) NGVD, Aug. 24, 1977.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 15, 1976	32.23	FEB. 8, 1977	30.79	AUG. 16, 1977	30.37	MAY 2, 1978	32.23
APR. 2, 1976	32.12	MAR. 3, 1977	31.02	AUG. 24, 1977	30.32	MAY 23, 1978	32.63
JUNE 23, 1976	31.45	APR. 4, 1977	31.58	SEPT 22, 1977	30.32	JUNE 26, 1978	32.05
SEPT 1, 1976	31.31	MAY 3, 1977	31.29	OCT. 13, 1977	30.63	JULY 25, 1978	31.70
SEPT 30, 1976	31.00	MAY 31, 1977	31.09	OCT. 26, 1977	30.85	AUG. 29, 1978	32.08
NOV. 4, 1976	31.14	JUNE 21, 1977	30.87	NOV. 22, 1977	31.22	SEPT 29, 1978	31.73
NOV. 30, 1976	30.91	JULY 20, 1977	30.52	DEC. 20, 1977	31.92		
JAN. 7, 1977	30.83	JULY 27, 1977	30.45	MAR. 31, 1978	33.06		

Well S 57459

404722073093402. Local number, S 57459.
LOCATION.--Lat 40°47'22", long 73°09'34", Connetquot Park, doublet with S 57458. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (0.05 m), depth 30.9 ft (9.4 m), screened 26.9 to 30.9 ft (8.2 to 9.4 m).
DATUM.--Land-surface datum is 47.2 ft (14.4 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of 2 in (0.05 m) coupling, 1.28 ft (0.39 m) above land-surface datum.
PERIOD OF RECORD.--January 1976 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 33.08 ft (10.08 m) NGVD, Mar. 31, 1978; lowest measured, 30.32 ft (9.24 m) NGVD, Sept. 22, 1977.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 15, 1976	32.21	FEB. 8, 1977	30.81	AUG. 16, 1977	30.42	MAY 2, 1978	32.23
APR. 2, 1976	32.09	MAR. 3, 1977	31.04	AUG. 24, 1977	30.50	MAY 23, 1978	32.61
JUNE 23, 1976	31.53	APR. 4, 1977	31.58	SEPT 22, 1977	30.32	JUNE 26, 1978	32.05
SEPT 1, 1976	31.29	MAY 3, 1977	31.32	OCT. 13, 1977	30.62	JULY 25, 1978	31.71
SEPT 30, 1976	30.98	MAY 31, 1977	31.10	OCT. 26, 1977	30.83	AUG. 29, 1978	32.08
NOV. 4, 1976	31.12	JUNE 21, 1977	30.88	NOV. 22, 1977	31.20	SEPT 29, 1978	31.74
NOV. 30, 1976	30.88	JULY 20, 1977	30.53	DEC. 20, 1977	31.90		
JAN. 7, 1977	30.84	JULY 27, 1977	30.46	MAR. 31, 1978	33.08		

Table 3.--Long-term record of water levels in Connetquot Park area (continued)

Well S 57460

404720073092001. Local number, S 57460.
LOCATION.--Lat 40°47'20", long 73°09'20", Connetquot Park, doublet with S 57461. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (0.05 m), depth 24.1 ft (7.3 m), screened 20.1 to 24.1 ft (6.1 to 7.3 m).
DATUM.--Land-surface datum is 50.4 ft (15.4 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of 2 in (0.05 m) coupling, 1.86 ft (0.57 m) above land-surface datum.
PERIOD OF RECORD.--January 1976 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 33.92 ft (10.33 m) NGVD, Mar. 31, 1978; lowest measured, 30.73 ft (9.37 m) NGVD, Sept. 22, 1977.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 15, 1976	31.91	FEB. 8, 1977	31.30	AUG. 16, 1977	30.86	MAY 2, 1978	33.08
FEB. 4, 1976	32.85	MAR. 3, 1977	31.42	AUG. 24, 1977	30.87	MAY 23, 1978	33.46
JUNE 23, 1976	32.16	APR. 4, 1977	32.16	SEPT 22, 1977	30.73	JUNE 26, 1978	32.97
SEPT 1, 1976	31.96	MAY 3, 1977	31.94	OCT. 13, 1977	30.97	JULY 25, 1978	32.54
SEPT 30, 1976	31.63	MAY 31, 1977	31.78	OCT. 26, 1977	31.19	AUG. 29, 1978	32.91
NOV. 4, 1976	31.63	JUNE 21, 1977	31.53	NOV. 22, 1977	31.67	SEPT 29, 1978	32.49
NOV. 30, 1976	31.45	JULY 20, 1977	31.14	DEC. 20, 1977	31.53		
JAN. 7, 1977	31.37	JULY 27, 1977	31.04	MAR. 31, 1978	33.92		

Well S 57461

404720073092002. Local number, S 57461.
LOCATION.--Lat 40°47'20", long 73°09'20", Connetquot Park, doublet with S 57460. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (0.05 m), depth 43.5 ft (13.2 m), screened 39.5 to 43.5 ft (12.0 to 13.2 m).
DATUM.--Land-surface datum is 50.4 ft (15.4 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of 2 in (0.05 m) coupling, 1.58 ft (0.48 m) above land-surface datum.
PERIOD OF RECORD.--January 1976 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 33.90 ft (10.33 m) NGVD, Mar. 31, 1978; lowest measured, 30.71 ft (9.36 m) NGVD, Sept. 22, 1977.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 15, 1976	32.86	FEB. 8, 1977	31.30	AUG. 16, 1977	30.86	MAY 2, 1978	33.08
APR. 26, 1976	32.86	MAR. 3, 1977	31.44	AUG. 24, 1977	30.86	MAY 23, 1978	33.44
JUNE 23, 1976	32.15	APR. 4, 1977	32.14	SEPT 22, 1977	30.71	JUNE 26, 1978	32.99
SEPT 1, 1976	31.94	MAY 3, 1977	31.94	OCT. 13, 1977	30.96	JULY 25, 1978	32.53
SEPT 30, 1976	31.76	MAY 31, 1977	31.76	OCT. 26, 1977	31.18	AUG. 29, 1978	32.91
NOV. 4, 1976	31.59	JUNE 21, 1977	31.67	NOV. 22, 1977	31.66	SEPT 29, 1978	32.48
NOV. 30, 1976	31.41	JULY 20, 1977	31.14	DEC. 20, 1977	31.47		
JAN. 7, 1977	31.32	JULY 27, 1977	31.04	MAR. 31, 1978	33.90		

Well S 57462

404710073100601. Local number, S 57462.
LOCATION.--Lat 40°47'10", long 73°10'06", Connetquot Park, doublet with S 57463. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (0.05 m), depth 12.8 ft (3.9 m), screened 8.8 to 12.8 ft (2.7 to 3.9 m).
DATUM.--Land-surface datum is 31.4 ft (9.6 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling inside recorder shelter, 1.81 ft (0.55 m) above land-surface datum.
PERIOD OF RECORD.--January 1976 to current year, continuous recorder since September 1977.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 28.48 ft (8.68 m) NGVD, Jan. 26, 1978; lowest, 26.64 ft (8.12 m) NGVD, Sept. 9, 1977 (from recorder).

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 15, 1976	27.58	MAR. 3, 1977	27.04	AUG. 24, 1977	26.81	MAY 23, 1978	27.65
MAR. 26, 1976	27.40	APR. 4, 1977	27.28	SEPT 2, 1977	26.70	JUNE 26, 1978	27.46
JUNE 23, 1976	27.13	MAY 3, 1977	27.08	SEPT 22, 1977	26.78	JULY 25, 1978	27.41
SEPT 1, 1976	27.15	MAY 31, 1977	26.93	OCT. 13, 1977	26.98	AUG. 29, 1978	27.55
SEPT 30, 1976	27.03	JUNE 14, 1977	26.94	OCT. 26, 1977	27.06	SEPT 29, 1978	27.37
NOV. 4, 1976	27.13	JUNE 21, 1977	26.87	NOV. 22, 1977	27.17	OCT. 18, 1978	27.33
NOV. 30, 1976	26.96	JULY 20, 1977	26.68	DEC. 20, 1977	27.44		
JAN. 7, 1977	26.96	JULY 27, 1977	26.68	MAR. 31, 1978	27.75		
FEB. 8, 1977	26.90	AUG. 16, 1977	26.72	MAY 2, 1978	27.47		

Table 3.--Long-term record of water levels in Connetquot Park area (continued)

Well S 57463

404710073100602. Local number, S 57463.
LOCATION.--Lat 40°47'10", long 73°10'06", Connetquot Park, doublet with S 57462. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (0.05 m), depth 31.3 ft (9.5 m), screened 27.3 to 31.3 ft (8.3 to 9.5 m).
DATUM.--Land-surface datum is 31.5 (9.6 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of 2 in (0.05 m) coupling, 1.27 ft (0.39 m) above land surface datum.
PERIOD OF RECORD.--Janaury 1976 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 27.77 ft (8.46 m) NGVD, Mar. 31, 1978; lowest measured, 26.66 ft (8.12 m) NGVD, July 20, 1977.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 15, 1976	27.58	MAR. 3, 1977	27.02	AUG. 24, 1977	26.78	JUNE 26, 1978	27.39
MAR. 26, 1976	27.38	APR. 4, 1977	27.28	SEPT 22, 1977	26.78	JULY 25, 1978	27.34
JUNE 23, 1976	27.13	MAY 3, 1977	27.08	OCT. 13, 1977	26.98	AUG. 29, 1978	27.50
SEPT 1, 1976	27.16	MAY 31, 1977	26.90	OCT. 26, 1977	27.06	SEPT 29, 1978	27.30
SEPT 30, 1976	27.01	JUNE 14, 1977	26.91	NOV. 22, 1977	27.15	OCT. 18, 1978	27.34
NOV. 4, 1976	27.12	JUNE 21, 1977	26.88	DEC. 20, 1977	27.46	OCT. 20, 1978	27.33
NOV. 30, 1976	26.98	JULY 20, 1977	26.66	MAR. 31, 1978	27.77		
JAN. 7, 1977	26.92	JULY 27, 1977	26.69	MAY 2, 1978	27.47		
FEB. 8, 1977	26.88	AUG. 16, 1977	26.70	MAY 23, 1978	27.60		

Well S 57464

404705073094902. Local number, S 57464.
LOCATION.--Lat 40°47'05", long 73°09'49", Connetquot Park, doublet with S 57465. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (0.05 m), depth 13.8 ft (4.2 m), screened 9.8 to 13.8 ft (3.0 to 4.2 m).
DATUM.--Land-surface datum is 34.7 ft (10.6 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of 2 in (0.05 m) coupling, 1.98 ft (0.60 m) above land-surface datum.
PERIOD OF RECORD.--January 1976 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.08 ft (8.90 m) NGVD, Mar. 31, 1978; lowest measured, 26.69 ft (8.14 m) NGVD, Aug. 16, 1977.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 15, 1976	28.48	FEB. 8, 1977	27.19	AUG. 16, 1977	26.69	MAY 2, 1978	28.27
MAR. 26, 1976	28.18	MAR. 3, 1977	27.52	AUG. 24, 1977	26.88	MAY 23, 1978	28.60
JUNE 23, 1976	27.44	APR. 4, 1977	28.08	SEPT 22, 1977	26.83	JUNE 26, 1978	28.01
SEPT 1, 1976	27.55	MAY 3, 1977	27.58	OCT. 13, 1977	27.29	JULY 25, 1978	27.77
SEPT 30, 1976	27.30	MAY 31, 1977	27.38	OCT. 26, 1977	27.45	AUG. 29, 1978	28.15
NOV. 4, 1976	27.58	JUNE 21, 1977	27.18	NOV. 22, 1977	27.67	SEPT 29, 1978	27.82
NOV. 30, 1976	27.27	JULY 20, 1977	26.85	DEC. 20, 1977	28.25		
JAN. 7, 1977	27.22	JULY 27, 1977	26.80	MAR. 31, 1978	29.08		

Well S 57465

404705073094902. Local number, S 57465.
LOCATION.--Lat 40°47'05", long 73°09'49", Connetquot Park, doublet with S 57464. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (0.05 m), depth 32.6 ft (9.9 m), screened 28.6 to 32.6 ft (8.7 to 9.9 m).
DATUM.--Land-surface datum is 34.9 ft (10.6 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of 2 in (0.05 m) coupling, 1.60 ft (0.48 m) above land-surface datum.
PERIOD OF RECORD.--January 1976 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.08 ft (8.86 m) NGVD, Mar. 31, 1978; lowest measured, 26.79 ft (8.16 m) NGVD, Aug. 16, 1977.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 15, 1976	28.47	FEB. 8, 1977	27.20	AUG. 16, 1977	26.79	MAY 2, 1978	28.27
MAR. 26, 1976	28.18	MAR. 3, 1977	27.53	AUG. 24, 1977	26.88	MAY 23, 1978	28.60
JUNE 23, 1976	27.67	APR. 4, 1977	28.10	SEPT 22, 1977	26.83	JUNE 26, 1978	28.02
SEPT 1, 1976	27.56	MAY 3, 1977	27.67	OCT. 13, 1977	27.29	JULY 25, 1978	27.78
SEPT 30, 1976	27.31	MAY 31, 1977	27.39	OCT. 26, 1977	27.45	AUG. 29, 1978	28.16
NOV. 4, 1976	27.57	JUNE 21, 1977	27.18	NOV. 22, 1977	27.68	SEPT 29, 1978	27.82
NOV. 30, 1976	27.26	JULY 20, 1977	26.90	DEC. 20, 1977	28.26	OCT. 30, 1978	27.80
JAN. 7, 1977	27.23	JULY 27, 1977	26.82	MAR. 31, 1978	29.08		

Table 3.--Long-term record of water levels in Connetquot Park area (continued)

Well S 57466

404702073093701. Local number, S 57466.
LOCATION.--Lat 40°47'02", long 73°09'37", Connetquot Park, doublet with S 57467. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (0.05 m), depth 12.9 ft (3.93 m), screened 4.9 to 12.9 ft (1.5 to 13.0 m).
DATUM.--Land-surface datum is 30.9 ft (9.4 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of 2 in (0.05 m) coupling, 1.53 ft (0.47 m) above land-surface datum.
PERIOD OF RECORD.--January 1976 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.76 ft (9.07 m) NGVD, Mar. 31, 1978; lowest measured, 27.03 ft (8.24 m) NGVD, Aug. 16, 1977.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 15, 1976	29.00	FEB. 8, 1977	27.50	AUG. 16, 1977	27.03	MAY 2, 1978	28.83
MAR. 26, 1976	28.73	MAR. 3, 1977	27.86	AUG. 24, 1977	27.13	MAY 23, 1978	29.20
JUNE 23, 1976	28.03	APR. 4, 1977	28.50	SEPT 22, 1977	27.03	JUNE 26, 1978	28.54
SEPT 1, 1976	27.94	MAY 3, 1977	28.06	OCT. 13, 1977	27.53	JULY 25, 1978	28.20
SEPT 30, 1976	27.62	MAY 31, 1977	27.81	OCT. 26, 1977	27.73	AUG. 29, 1978	28.68
NOV. 4, 1976	27.87	JUNE 21, 1977	27.54	NOV. 22, 1977	28.03	SEPT 29, 1978	28.26
NOV. 30, 1976	27.57	JULY 20, 1977	27.16	DEC. 20, 1977	28.73		
JAN. 7, 1977	27.52	JULY 27, 1977	27.11	MAR. 31, 1978	29.76		

Well S 57467

404702073093702. Local number, S 57467.
LOCATION.--Lat 40°47'02", long 73°09'37", Connetquot Park, doublet with S 57466. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (0.05 m), depth 51.3 ft (15.6 m), screened 47.3 to 51.3 ft (14.4 to 15.6 m).
DATUM.--Land-surface datum is 31.0 ft (9.4 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of 2 in (0.05 m) coupling, 1.34 ft (0.41 m) above land-surface datum.
PERIOD OF RECORD.--January 1976 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.75 ft (9.1 m) NGVD, Mar. 31, 1978; lowest measured, 27.01 ft (8.2 m) NGVD, Aug. 16, 1977.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 15, 1976	29.00	FEB. 8, 1977	27.50	AUG. 16, 1977	27.01	MAY 2, 1978	28.83
MAR. 26, 1976	28.72	MAR. 3, 1977	27.83	AUG. 24, 1977	27.11	MAY 23, 1978	29.20
JUNE 23, 1976	28.02	APR. 4, 1977	28.51	SEPT 22, 1977	27.02	JUNE 26, 1978	28.55
SEPT 1, 1976	27.96	MAY 3, 1977	28.08	OCT. 13, 1977	27.50	JULY 25, 1978	28.21
SEPT 30, 1976	27.61	MAY 31, 1977	27.77	OCT. 26, 1977	27.72	AUG. 29, 1978	28.68
NOV. 4, 1976	27.87	JUNE 21, 1977	27.55	NOV. 22, 1977	27.99	SEPT 29, 1978	28.25
NOV. 30, 1976	27.55	JULY 20, 1977	27.16	DEC. 20, 1977	28.71		
JAN. 7, 1977	27.52	JULY 27, 1977	27.09	MAR. 31, 1978	29.75		

Well S 57468

404700073092301. Local number, S 57468.
LOCATION.--Lat 40°47'00", long 73°09'23", Connetquot Park, triplet with S 57469 and S 62234. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (0.05 m), depth 23.5 ft (7.2 m), screened 19.5 to 23.5 ft (5.9 to 7.2 m).
DATUM.--Land-surface datum is 47.5 ft (14.5 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.25 in (0.03 m) coupling inside recorder shelter, 2.06 ft (0.62 m) above land-surface datum.
PERIOD OF RECORD.--January 1976 to current year, continuous records since April 1978.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 30.61 ft (9.33 m) NGVD, Mar. 31, 1978; lowest measured, 27.35 ft (8.34 m) NGVD, Sept. 22, 1977.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 15, 1976	29.61	FEB. 8, 1977	27.93	AUG. 16, 1977	27.45	APR. 25, 1978	29.77
MAR. 26, 1976	29.52	MAR. 3, 1977	28.20	AUG. 24, 1977	27.49	MAY 2, 1978	29.64
JUNE 23, 1976	28.72	APR. 4, 1977	28.88	SEPT 22, 1977	27.35	MAY 23, 1978	30.06
SEPT 1, 1976	28.54	MAY 3, 1977	28.60	OCT. 13, 1977	27.78	JUNE 26, 1978	29.44
SEPT 30, 1976	28.15	MAY 31, 1977	28.41	OCT. 26, 1977	28.08	JULY 25, 1978	28.99
NOV. 4, 1976	28.29	JUNE 21, 1977	28.12	NOV. 22, 1977	28.42	AUG. 29, 1978	29.46
NOV. 30, 1976	28.03	JULY 20, 1977	27.62	DEC. 20, 1977	28.21	SEPT 29, 1978	28.95
JAN. 7, 1977	27.96	JULY 27, 1977	27.62	MAR. 31, 1978	30.61		

Table 3.--Long-term record of water levels in Connetquot Park area (continued)

Well S 57469

404700073092302. Local number, S 57469.
LOCATION.--Lat 40°47'00", long 73°09'23", Connetquot Park, triplet with S 57468 and S 62234. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (0.05 m), depth 44.0 ft (13.4 m), screened 40.0 to 44.0 ft (12.2 to 13.4 m).
DATUM.--Land-surface datum is 47.4 ft (14.4 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of 2 in (0.05 m) coupling, 1.84 ft (0.56 m) above land-surface datum.
PERIOD OF RECORD.--January 1976 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 30.92 ft (9.42 m) NGVD, Jan. 15, 1976; lowest measured, 27.36 ft (8.34 m) NGVD, Sept. 22, 1977.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 15, 1976	30.92	FEB. 8, 1977	27.97	AUG. 16, 1977	27.46	APR. 25, 1978	29.74
MAR. 26, 1976	29.52	MAR. 3, 1977	28.22	AUG. 24, 1977	27.50	MAY 2, 1978	29.61
JUNE 23, 1976	28.74	APR. 4, 1977	28.91	SEPT 22, 1977	27.36	MAY 23, 1978	30.02
SEPT 1, 1976	28.55	MAY 3, 1977	28.62	OCT. 13, 1977	27.80	JUNE 26, 1978	29.40
SEPT 30, 1976	28.14	MAY 31, 1977	28.62	OCT. 26, 1977	28.10	JULY 25, 1978	28.95
NOV. 4, 1976	28.28	JUNE 21, 1977	28.63	NOV. 22, 1977	28.49	AUG. 29, 1978	29.42
NOV. 30, 1976	28.05	JULY 20, 1977	27.75	DEC. 20, 1977	28.23	SEPT 29, 1978	28.92
JAN. 7, 1977	27.98	JULY 27, 1977	27.65	MAR. 31, 1978	30.63		

Well S 57470

404651073095701. Local number, S 57470.
LOCATION.--Lat 40°46'51", long 73°09'57", Connetquot Park, doublet with S 57471. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (0.05 m), depth 13.3 ft (4.0 m), screened 9.3 to 13.3 ft (2.8 to 4.0 m).
DATUM.--Land-surface datum is 28.0 ft (8.5 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of 2 in (0.05 m) coupling, 0.22 ft (0.07 m) below land-surface datum.
PERIOD OF RECORD.--January 1976 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.28 ft (7.70 m) NGVD, Mar. 21, 1978; lowest measured, 23.65 ft (7.21 m) NGVD, July 20, 1977.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 15, 1976	25.17	FEB. 8, 1977	24.00	JULY 27, 1977	23.73	MAR. 31, 1978	25.28
MAR. 26, 1976	24.67	MAR. 3, 1977	24.26	AUG. 16, 1977	23.73	MAY 2, 1978	24.76
JUNE 23, 1976	24.27	APR. 4, 1977	24.66	AUG. 24, 1977	23.88	MAY 23, 1978	24.97
AUG. 31, 1976	24.25	MAY 3, 1977	24.30	SEPT 22, 1977	23.83	JUNE 26, 1978	24.59
SEPT 30, 1976	24.10	MAY 31, 1977	24.05	OCT. 13, 1977	24.18	JULY 25, 1978	24.45
NOV. 4, 1976	24.32	JUNE 14, 1977	24.08	OCT. 26, 1977	24.25	AUG. 29, 1978	24.69
NOV. 30, 1976	24.09	JUNE 21, 1977	23.95	NOV. 22, 1977	24.39	SEPT 29, 1978	24.47
JAN. 7, 1977	24.06	JULY 20, 1977	23.65	DEC. 20, 1977	24.82		

Well S 57471

404651073095702. Local number, S 57471.
LOCATION.--Lat 40°46'51", long 73°09'52", Connetquot Park, doublet with S 57470. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (0.05 m), depth 27.0 ft (8.2 m), screened 23.0 to 27.0 ft (7.0 to 8.2 m).
DATUM.--Land-surface datum is 28.0 ft (8.5 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of 2 in (0.05 m) coupling, 0.12 ft (0.04 m) below land-surface datum.
PERIOD OF RECORD.--January 1976 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.28 ft (7.7 m) NGVD, Mar. 31, 1978; lowest measured, 23.66 ft (7.2 m) NGVD, July 20, 1977.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 15, 1976	24.90	FEB. 8, 1977	24.00	JULY 27, 1977	23.71	MAR. 31, 1978	25.28
MAR. 26, 1976	24.62	MAR. 3, 1977	24.27	AUG. 16, 1977	23.73	MAY 2, 1978	24.78
JUNE 23, 1976	24.26	APR. 4, 1977	24.68	AUG. 24, 1977	23.88	MAY 23, 1978	24.96
AUG. 31, 1976	24.31	MAY 3, 1977	24.32	SEPT 22, 1977	23.83	JUNE 26, 1978	24.59
SEPT 30, 1976	24.11	MAY 31, 1977	24.06	OCT. 13, 1977	24.18	JULY 25, 1978	24.46
NOV. 4, 1976	24.33	JUNE 14, 1977	24.07	OCT. 26, 1977	24.26	AUG. 29, 1978	24.70
NOV. 30, 1976	24.10	JUNE 21, 1977	23.98	NOV. 22, 1977	24.41	SEPT 29, 1978	24.47
JAN. 7, 1977	24.04	JULY 20, 1977	23.66	DEC. 20, 1977	24.81		

Table 3.--Long-term record of water levels in Connetquot Park area (continued)

Well S 57472

404645073093601. Local number, S 57472.
LOCATION.--Lat 40°46'45", long 73°09'36", Connetquot Park, doublet with S 57473. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (0.05 m), depth 12.8 ft (3.9 m), screened 8.8 to 12.8 ft (2.7 to 3.9 m).
DATUM.--Land-surface datum is 31.9 ft (9.7 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of 2 in (0.05 m) coupling, 1.67 ft (0.51 m) above land-surface datum.
PERIOD OF RECORD.--January 1976 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 26.01 ft (7.93 m) NGVD, Mar. 31, 1978; lowest measured, 23.65 ft (7.21 m) NGVD, Aug. 16, 1977.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 15, 1976	25.28	FEB. 8, 1977	24.05	JULY 27, 1977	23.70	MAR. 31, 1978	26.01
MAR. 26, 1976	25.09	MAR. 3, 1977	24.40	AUG. 16, 1977	23.65	MAY 2, 1978	25.21
JUNE 23, 1976	24.51	APR. 4, 1977	25.00	AUG. 24, 1977	23.77	MAY 23, 1978	25.32
AUG. 31, 1976	24.45	MAY 3, 1977	24.46	SEPT 22, 1977	23.65	JUNE 26, 1978	24.95
SEPT 30, 1976	24.10	MAY 31, 1977	24.30	OCT. 13, 1977	24.21	JULY 25, 1978	24.66
NOV. 4, 1976	24.39	JUNE 14, 1977	24.23	OCT. 26, 1977	24.34	AUG. 29, 1978	25.05
NOV. 30, 1976	24.11	JUNE 21, 1977	24.11	NOV. 22, 1977	24.54	SEPT 29, 1978	24.70
JAN. 7, 1977	24.10	JULY 20, 1977	23.77	DEC. 20, 1977	24.15		

Well S 57473

404645073093602. Local number, S 57473.
LOCATION.--Lat 40°46'45", long 73°09'36", Connetquot Park, doublet with S 57472. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (0.05 m), depth 31.9 ft (9.7 m), screened 27.9 to 31.9 ft (8.5 to 9.7 m).
DATUM.--Land-surface datum is 32.0 ft (9.75 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of 2 in (0.05 m) coupling, 1.94 ft (0.59 m) above land-surface datum.
PERIOD OF RECORD.--January 1976 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 26.02 ft (7.93 m) NGVD, Mar. 31, 1978; lowest measured, 23.64 ft (7.20 m) NGVD, Sept. 22, 1977.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 15, 1976	25.28	FEB. 8, 1977	24.04	JULY 27, 1977	23.69	MAR. 31, 1978	26.02
MAR. 26, 1976	25.07	MAR. 3, 1977	24.41	AUG. 16, 1977	23.71	MAY 2, 1978	25.20
JUNE 23, 1976	24.50	APR. 4, 1977	24.93	AUG. 24, 1977	23.77	MAY 23, 1978	25.31
AUG. 31, 1976	24.43	MAY 3, 1977	24.54	SEPT 22, 1977	23.64	JUNE 26, 1978	24.96
SEPT 30, 1976	24.12	MAY 31, 1977	24.31	OCT. 13, 1977	24.20	JULY 25, 1978	24.66
NOV. 4, 1976	24.41	JUNE 14, 1977	24.24	OCT. 26, 1977	24.31	AUG. 29, 1978	25.04
NOV. 30, 1976	24.11	JUNE 21, 1977	24.11	NOV. 22, 1977	24.53	SEPT 29, 1978	24.71
JAN. 7, 1977	24.08	JULY 20, 1977	23.79	DEC. 20, 1977	24.13		

Well S 57474

404636073102001. Local number, S 57474.
LOCATION.--Lat 40°46'36", long 73°10'20", Connetquot Park, doublet with S 57475. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (0.05 m), depth 13.5 ft (4.1 m), screened 9.5 to 13.5 ft (2.9 to 4.1 m).
DATUM.--Land-surface datum is 30.0 ft (9.1 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of 2 in (0.05 m) coupling, 1.73 ft (0.53 m) above land-surface datum.
PERIOD OF RECORD.--January 1976 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.35 ft (7.12 m) NGVD, Mar. 31, 1978; lowest measured, 22.00 ft (6.70 m) NGVD, Aug. 16, 1977.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 15, 1976	22.96	FEB. 8, 1977	22.19	AUG. 10, 1977	21.90	MAR. 31, 1978	23.35
FEB. 4, 1976	22.96	MAR. 3, 1977	22.23	AUG. 16, 1977	22.00	MAY 2, 1978	23.04
JUNE 23, 1976	22.43	APR. 4, 1977	22.60	AUG. 24, 1977	22.10	MAY 23, 1978	23.09
AUG. 31, 1976	22.39	MAY 3, 1977	22.72	SEPT 22, 1977	22.01	JUNE 26, 1978	22.97
SEPT 30, 1976	22.27	MAY 31, 1977	22.39	OCT. 14, 1977	22.20	JULY 25, 1978	22.74
NOV. 4, 1976	22.34	JUNE 21, 1977	22.31	OCT. 26, 1977	22.28	AUG. 29, 1978	22.88
NOV. 30, 1976	22.24	JULY 20, 1977	22.04	NOV. 22, 1977	22.47	SEPT 29, 1978	22.66
JAN. 7, 1977	22.21	JULY 27, 1977	22.04	DEC. 20, 1977	22.91		

Table 3.--Long-term record of water levels in Connetquot Park area (continued)

Well S 57475

404636073102002. Local number, S 57475.
LOCATION.--Lat 40°46'36", long 73°10'20", Connetquot Park, doublet with S 57474. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (0.05 m), depth 34.5 ft (10.5 m), screened 30.4 to 34.5 ft (9.3 to 10.5 m).
DATUM.--Land-surface datum is 30.0 ft (9.1 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of 2 in (0.05 m) coupling, 1.68 ft (0.51 m) above land-surface datum.
PERIOD OF RECORD.--January 1976 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.29 ft (7.10 m) NGVD, Mar. 31, 1978; lowest measured, 21.98 ft (6.70 m) NGVD, Aug. 16, 1977.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 15, 1976	22.93	FEB. 8, 1977	22.16	AUG. 16, 1977	21.98	MAY 2, 1978	23.02
FEB. 4, 1976	22.94	MAR. 3, 1977	22.26	AUG. 24, 1977	22.07	MAY 23, 1978	23.06
JUNE 23, 1976	22.44	APR. 4, 1977	22.64	SEPT 22, 1977	21.98	JUNE 26, 1978	22.94
AUG. 31, 1976	22.37	MAY 3, 1977	22.60	OCT. 14, 1977	22.17	JULY 25, 1978	22.72
SEPT 30, 1976	22.26	MAY 31, 1977	22.37	OCT. 26, 1977	22.27	AUG. 29, 1978	22.85
NOV. 4, 1976	22.33	JUNE 21, 1977	22.28	NOV. 22, 1977	22.44	SEPT 29, 1978	22.63
NOV. 30, 1976	22.22	JULY 20, 1977	22.03	DEC. 20, 1977	22.89		
JAN. 7, 1977	22.16	JULY 27, 1977	22.03	MAR. 31, 1978	23.29		

Well S 57476

404613073095601. Local number, S 57476.
LOCATION.--Lat 40°46'13", long 73°09'56", Connetquot Park, doublet with S 57477. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (0.05 m), depth 33.8 ft (10.3 m), screened 25.8 to 33.8 ft (7.9 to 10.3 m).
DATUM.--Land-surface datum is 42.8 ft (13.0 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of 2 in (0.05 m) coupling, 1.09 ft (0.33 m) above land-surface datum.
PERIOD OF RECORD.--January 1976 to April 1977.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.29 ft (6.18 m) NGVD, Jan. 15, 1976; lowest measured, 18.87 ft (5.75 m) NGVD, Jan. 7, 1977.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 15, 1976	20.29	AUG. 31, 1976	19.18	NOV. 30, 1976	18.89	MAR. 3, 1977	19.18
FEB. 4, 1976	20.24	SEPT 30, 1976	18.93	JAN. 7, 1977	18.87	APR. 4, 1977	19.97
JUNE 23, 1976	19.64	NOV. 4, 1976	19.05	FEB. 8, 1977	18.87		

Well S 57477

404613073095602. Local number, S 57477.
LOCATION.--Lat 40°46'13", long 73°09'56", Connetquot Park, doublet with S 57476. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (0.05 m), depth 54.6 ft (16.6 m), screened 50.6 to 54.6 ft (15.4 to 16.6 m).
DATUM.--Land-surface datum is 43.0 ft (13.1 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of 2 in (0.05 m) coupling, 0.23 ft (0.07 m) above land-surface datum.
PERIOD OF RECORD.--January 1976 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.10 ft (6.43 m) NGVD, Mar. 31, 1978; lowest measured, 18.55 ft (5.65 m) NGVD, Sept. 22, 1977.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 15, 1976	20.31	FEB. 8, 1977	18.96	JULY 27, 1977	18.76	MAR. 31, 1978	21.10
APR. 2, 1976	20.23	MAR. 3, 1977	19.15	AUG. 16, 1977	18.60	MAY 2, 1978	20.40
JUNE 23, 1976	19.32	APR. 4, 1977	19.96	AUG. 24, 1977	18.69	MAY 23, 1978	20.53
AUG. 31, 1976	19.18	MAY 3, 1977	19.56	SEPT 22, 1977	18.55	JUNE 23, 1978	20.28
SEPT 30, 1976	18.93	MAY 11, 1977	19.87	OCT. 13, 1977	18.86	JULY 25, 1978	19.74
NOV. 4, 1976	19.05	MAY 31, 1977	19.54	OCT. 26, 1977	19.14	AUG. 29, 1978	20.03
NOV. 30, 1976	18.89	JUNE 21, 1977	19.27	NOV. 22, 1977	19.61	SEPT 29, 1978	19.57
JAN. 7, 1977	18.86	JULY 20, 1977	18.85	DEC. 20, 1977	20.35		

Table 3.--Long-term record of water levels in Connetquot Park area (continued)

Well S 57478

404619073093201. Local number, S 57478.
LOCATION.--Lat 40°46'19", long 73°09'32", Connetquot Park, quadruplet with S 57479, S 62237, and S 62239.
Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Driven observation water-table well, diameter 2 in (0.05 m), depth 6.8 ft (2.1 m), screened 5.8 to 6.8 ft (1.8 to 2.1 m).
DATUM.--Land-surface datum is 16.4 ft (5.0 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of reducer, 1.8 ft (0.55 m) above land-surface datum.
PERIOD OF RECORD.--January 1976 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.93 ft (5.16 m) NGVD, Dec. 21, 1977; lowest measured, 16.01 ft (4.88 m) NGVD, Feb. 8. 1977.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 15, 1976	16.43	MAR. 3, 1977	16.03	AUG. 10, 1977	16.04	DEC. 21, 1977	16.93
MAR. 26, 1976	16.30	APR. 4, 1977	16.26	AUG. 16, 1977	16.07	MAR. 31, 1978	16.61
JUNE 23, 1976	16.36	MAY 3, 1977	16.32	AUG. 24, 1977	16.14	MAY 2, 1978	16.57
AUG. 31, 1976	16.25	MAY 31, 1977	16.11	SEPT 22, 1977	16.11	MAY 23, 1978	16.55
SEPT 30, 1976	16.17	JUNE 14, 1977	16.14	OCT. 13, 1977	16.16	JUNE 26, 1978	16.32
NOV. 4, 1976	16.25	JUNE 21, 1977	16.11	OCT. 26, 1977	16.21	JULY 25, 1978	16.18
NOV. 30, 1976	16.24	JUNE 28, 1977	16.10	NOV. 8, 1977	16.73	AUG. 29, 1978	16.15
JAN. 7, 1977	16.11	JULY 21, 1977	16.01	NOV. 22, 1977	16.37	SEPT 29, 1978	16.06
FEB. 8, 1977	16.01	JULY 27, 1977	16.03	DEC. 20, 1977	16.53		

Well S 57479

404619073093202. Local number, S 57479.
LOCATION.--Lat 40°46'19", long 73°09'32", Connetquot Park, quadruplet with S 57478, S 62237, and S62239.
Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Driven observation water-table well, diameter 2 in (0.05 m), depth 10.6 ft (3.2 m), screened 9.6 to 10.6 ft (2.9 to 3.2 m).
DATUM.--Land-surface datum is 16.8 ft (5.1 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of reducer, 1.08 ft (0.33 m) above land-surface datum.
PERIOD OF RECORD.--January 1976 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.96 ft (5.17 m) NGVD, Dec. 21, 1977; lowest measured, 16.05 ft (4.89 m) NGVD, July 21, 1977.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 15, 1976	16.46	MAR. 3, 1977	16.09	JULY 27, 1977	16.08	DEC. 20, 1977	16.58
MAR. 26, 1976	16.60	APR. 4, 1977	16.30	AUG. 10, 1977	16.08	DEC. 21, 1977	16.96
JUNE 23, 1976	16.39	MAY 3, 1977	16.36	AUG. 16, 1977	16.10	MAR. 31, 1978	16.67
AUG. 31, 1976	16.31	MAY 31, 1977	16.19	AUG. 24, 1977	16.16	MAY 2, 1978	16.60
SEPT 30, 1976	16.21	JUNE 14, 1977	16.18	SEPT 22, 1977	16.14	MAY 23, 1978	16.58
NOV. 4, 1976	16.33	JUNE 21, 1977	16.20	OCT. 13, 1977	16.20	JUNE 26, 1978	16.37
NOV. 30, 1976	16.29	JUNE 28, 1977	16.18	OCT. 26, 1977	16.25	JULY 25, 1978	16.23
JAN. 7, 1977	16.15	JULY 20, 1977	16.06	NOV. 8, 1977	16.78	AUG. 29, 1978	16.22
FEB. 8, 1977	16.13	JULY 21, 1977	16.05	NOV. 22, 1977	16.41	SEPT 29, 1978	16.13

Well S 57480

404616073093401. Local number, 57480.
LOCATION.--Lat 40°46'16", long 73°09'34", Connetquot Park, doublet with S 57481. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (0.05 m), depth 14.0 ft (4.3 m), screened 10.0 to 14.0 ft (3.0 to 4.3 m).
DATUM.--Land-surface datum is 18.7 ft (5.7 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of 2 in (0.05 m) coupling, 0.42 ft (0.13 m) above land-surface datum.
PERIOD OF RECORD.--January 1976 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.19 ft (5.2 m), NGVD, Mar. 31, 1978; lowest measured, 16.31 ft (5.0 m) NGVD, July 20, 1977.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 15, 1976	16.98	FEB. 8, 1977	16.32	JULY 27, 1977	16.34	MAR. 31, 1978	17.19
MAR. 26, 1976	16.79	MAR. 3, 1977	16.45	AUG. 16, 1977	16.36	MAY 2, 1978	16.99
JUNE 23, 1976	16.57	APR. 4, 1977	16.73	AUG. 24, 1977	16.30	MAY 23, 1978	17.02
AUG. 31, 1976	16.53	MAY 3, 1977	16.59	SEPT 22, 1977	16.43	JUNE 26, 1978	16.83
SEPT 30, 1976	16.47	MAY 10, 1977	16.95	OCT. 13, 1977	16.37	JULY 25, 1978	16.63
NOV. 4, 1976	16.58	MAY 31, 1977	16.57	OCT 26, 1977	16.61	AUG. 29, 1978	16.69
NOV. 30, 1976	16.51	JUNE 21, 1977	16.55	NOV 22, 1977	16.77	SEPT 29, 1978	16.54
JAN. 7, 1977	16.44	JULY 20, 1977	16.31	DEC. 20, 1977	17.09	OCT. 30, 1978	16.51

Table 3.--Long-term record of water levels in Connetquot Park area (continued)

Well S 57481

404616073093402. Local number, S 57481.
LOCATION.--Lat 40°46'16", long 73°09'34", Connetquot Park, doublet with S 57480. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (0.05 m), depth 27.9 ft (8.5 m), screened 23.9 to 27.9 ft (7.3 to 8.5 m).
DATUM.--Land-surface datum is 18.6 ft (5.7 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of 2 in (0.05 m) coupling, 0.64 ft (0.20 m) above land surface datum.
PERIOD OF RECORD.--January 1976 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.18 ft (5.24 m) NGVD, Mar. 31, 1978; lowest measured, 16.25 ft (4.95 m) NGVD, July 27, 1977.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 15, 1976	16.90	FEB. 8, 1977	16.55	JULY 27, 1977	16.25	MAR. 31, 1978	17.18
MAR. 26, 1976	16.81	MAR. 3, 1977	16.45	AUG. 16, 1977	16.31	MAY 2, 1978	16.99
JUNE 23, 1976	16.57	APR. 4, 1977	16.73	AUG. 24, 1977	16.43	MAY 23, 1978	17.02
AUG. 31, 1976	16.53	MAY 3, 1977	16.76	SEPT 22, 1977	16.43	JUNE 26, 1978	16.81
SEPT 30, 1976	16.47	MAY 10, 1977	16.88	OCT. 13, 1977	16.58	JULY 25, 1978	16.63
NOV. 4, 1976	16.60	MAY 31, 1977	16.53	OCT. 26, 1977	16.55	AUG. 29, 1978	16.69
NOV. 30, 1976	16.50	JUNE 21, 1977	16.52	NOV. 22, 1977	16.85	SEPT 29, 1978	16.55
JAN. 7, 1977	16.44	JULY 20, 1977	16.26	DEC. 20, 1977	17.02		

Well S 57482

404632073093901. Local number, S 57482.
LOCATION.--Lat 40°46'32", long 73°09'39", Connetquot Park. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Driven observation water-table well, diameter 2 in (0.05 m), depth 17.1 ft (5.2 m), screened 13.1 to 17.1 ft (4.0 to 5.2 m).
DATUM.--Land-surface datum is 25.5 ft (7.8 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of 2 in (0.05 m) coupling, 0.20 ft (0.06 m) below land-surface datum.
PERIOD OF RECORD.--Januray 1976 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.30 ft (6.49 m) NGVD, Mar. 31, 1978; lowest measured, 19.82 ft (6.04 m) NGVD, July 20, 1977.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 15, 1976	20.88	FEB. 8, 1977	20.12	JULY 27, 1977	19.84	MAR. 31, 1978	21.30
MAR. 26, 1976	20.67	MAR. 3, 1977	20.39	AUG. 16, 1977	19.83	MAY 2, 1978	20.80
JUNE 23, 1976	20.33	APR. 4, 1977	20.72	AUG. 24, 1977	19.98	MAY 18, 1978	21.24
AUG. 31, 1976	20.33	MAY 3, 1977	20.42	SEPT 22, 1977	19.88	MAY 23, 1978	20.97
SEPT 30, 1976	20.20	MAY 31, 1977	20.20	OCT. 13, 1977	20.22	JUNE 26, 1978	20.67
NOV. 4, 1976	20.46	JUNE 14, 1977	20.20	OCT. 26, 1977	20.25	JULY 25, 1978	20.50
NOV. 30, 1976	20.20	JUNE 21, 1977	20.11	NOV. 22, 1977	20.52	AUG. 29, 1978	20.75
JAN. 7, 1977	20.22	JULY 20, 1977	19.82	DEC. 20, 1977	20.90	SEPT 29, 1978	20.58

Well S 62233

404711073085701. Local number, S 62233.
LOCATION.--Lat 40°47'11", long 73°08'57", Connetquot Park. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (0.05 m), depth 45.0 ft (13.7 m), screened 42.0 to 45.0 ft (12.8 to 13.7 m).
DATUM.--Land-surface datum is 55.0 ft (16.8 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of 2 in (0.05 m) casing, 0.49 ft (0.15 m) above land-surface datum.
PERIOD OF RECORD.--July 1977 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.76 ft (10.59 m) NGVD, Mar. 31, 1978; lowest measured, 31.39 ft (9.57 m) NGVD, Sept. 22, 1977.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 12, 1977	32.09	SEPT 22, 1977	31.39	MAR. 31, 1978	34.76	AUG. 29, 1978	34.07
JULY 20, 1977	31.96	OCT. 13, 1977	31.55	MAY 2, 1978	34.30	SEPT 29, 1978	33.63
JULY 27, 1977	31.87	OCT. 26, 1977	31.68	MAY 23, 1978	34.41		
AUG. 16, 1977	31.62	NOV. 22, 1977	32.10	JUNE 26, 1978	34.26		
AUG. 24, 1977	31.65	DEC. 20, 1977	32.93	JULY 25, 1978	33.83		

Table 3.--Long-term record of water levels in Connetquot Park area (continued)

Well S 62234

404700073092303. Local number, S 62234.
LOCATION.--Lat 40°47'00, long 73°09'23", Connetquot Park, triplet with S 57468 and S 57469. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (0.05 m), depth 62.0 ft (18.9 m), screened 59.0 to 62.0 ft (18.0 to 18.9 m).
DATUM.--Land-surface datum is 48.4 ft (14.7 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of 2 in (0.05 m) coupling inside recorder shelter, 0.69 ft (0.21 m) above land-surface datum.
PERIOD OF RECORD.--July 1977 to current year, continuous recorder since July 1977.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 31.08 ft (9.47 m) NGVD, Jan. 28, 1978; lowest measured, 27.33 ft (8.33 m) NGVD, Sept. 16, 1977.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 20, 1977	27.71	SEPT 22, 1977	27.36	MAR. 31, 1978	30.62	JULY 25, 1978	28.97
JULY 27, 1977	27.56	OCT. 13, 1977	27.77	APR. 25, 1978	29.75	AUG. 29, 1978	29.46
AUG. 9, 1977	27.49	OCT. 26, 1977	28.09	MAY 2, 1978	28.61	SEPT 29, 1978	28.94
AUG. 16, 1977	24.45	NOV. 22, 1977	28.41	MAY 23, 1978	30.05		
AUG. 24, 1977	27.49	DEC. 20, 1977	29.21	JUNE 26, 1978	29.42		

Well S 62235

404648073090801. Local number, S 62235.
LOCATION.--Lat 40°46'48", long 73°09'08", Connetquot Park. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (0.05 m), depth 41.5 ft (12.6 m), screened 38.5 to 41.5 ft (11.7 m).
DATUM.--Land-surface datum is 37.8 ft (11.5 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of 2 in (0.05 m) casing, 0.24 ft (0.07 m) below land-surface datum.
PERIOD OF RECORD.--August 1977 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.94 ft (8.8 m) NGVD, Mar. 31, 1978; lowest measured 25.59 ft (7.8 m) NGVD, Sept. 22, 1977.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
AUG. 24, 1977	25.87	NOV. 22, 1977	26.64	MAY 23, 1978	28.47	SEPT 29, 1978	27.36
SEPT 22, 1977	25.59	DEC. 20, 1977	27.42	JUNE 26, 1978	27.97		
OCT. 13, 1977	26.09	MAR. 31, 1978	28.94	JULY 25, 1978	27.31		
OCT. 26, 1977	26.34	MAY 2, 1978	28.13	AUG. 29, 1978	27.87		

Well S 62236

404642073084901. Local number, S 62236.
LOCATION.--Lat 40°46'42", long 73°08'09", Connetquot Park. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (0.05 m), depth 42.0 ft (12.8 m) screened 40.0 to 42.0 ft (12.2 to 12.8 m).
DATUM.--Land-surface datum is 39.5 ft (12.0 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of 2 in (0.05 m) casing, 0.65 ft (0.20 m) above land-surface datum.
PERIOD OF RECORD.--July 1977 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.55 ft (9.0 m) NGVD, Mar. 31, 1978; lowest measured, 26.16 ft (8.0 m) NGVD, Sept. 22, 1977.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 13, 1977	26.85	SEPT 22, 1977	26.16	MAR. 31, 1978	29.55	AUG. 29, 1978	28.58
JULY 20, 1977	26.68	OCT. 13, 1977	26.42	MAY 2, 1978	28.96	SEPT 29, 1978	28.10
JULY 27, 1977	26.57	OCT. 26, 1977	26.61	MAY 23, 1978	29.16		
AUG. 16, 1977	26.35	NOV. 22, 1977	26.96	JUNE 26, 1978	28.89		
AUG. 24, 1977	26.41	DEC. 20, 1977	27.76	JULY 25, 1978	28.39		

Table 3.--Long-term record of water levels in Connetquot Park area (continued)

Well S 62237

404619073093203. Local number, S 62237.
LOCATION.--Lat 40°46'19", long 73°09'32", Connetquot Park, quadruplet with S 57478, S 57499, and S 62239.
Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (0.05 m), depth 44.0 ft (13.4 m), screened 41.0 to 44.0 ft (12.5 to 13.4 m).
DATUM.--Land-surface datum is 17.5 ft (5.3 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of 2 in (0.05 m) coupling, 0.16 ft (0.05 m) below land-surface datum.
PERIOD OF RECORD.--May 1978 to September 1978.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.70 ft (5.09 m) NGVD, May 2, 1978; lowest measured, 16.32 ft (4.97 m) NGVD, Sept. 29, 1978.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 2, 1978	16.70	JUNE 26, 1978	16.47	AUG. 29, 1978	16.41		
MAY 23, 1978	16.67	JULY 25, 1978	16.39	SEPT 29, 1978	16.32		

Well S 62238

404711073100901. Local number, S 62238.
LOCATION.--Lat 40°47'11", long 73°10'09", Connetquot Park. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter, 2 in (0.05 m), depth 42.0 ft (12.8 m), screened 39.0 to 42.0 ft (11.9 to 12.8 m).
DATUM.--Land-surface datum is 27.6 ft (8.4 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of 2 in (0.05 m) coupling inside recorder shelter, 1.49 ft (0.45 m) above land-surface datum.
PERIOD OF RECORD.--July 1977 to current year, continuous recorder since September 1977.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 28.28 ft (8.62 m) NGVD, Aug. 12, 1978; lowest, 26.42 ft (8.05 m) NGVD, Sept. 12, 1977.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 13, 1977	26.46	SEPT 22, 1977	26.59	MAR. 31, 1978	27.26	AUG. 29, 1978	27.18
JULY 20, 1977	26.49	OCT. 13, 1977	26.72	MAY 2, 1978	27.10	SEPT 29, 1978	26.99
JULY 27, 1977	26.50	OCT. 26, 1977	26.80	MAY 23, 1978	27.18		
AUG. 16, 1977	26.51	NOV. 22, 1977	26.84	JUNE 26, 1978	27.06		
AUG. 24, 1977	26.58	DEC. 20, 1977	27.07	JULY 25, 1978	27.07		

Well S 62239

404619073093204. Local number, S 62239.
LOCATION.--Lat 40°46'19", long 73°09'32", Connetquot Park, quadruplet with S 57478, S 57479, and S 62237.
Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 4 in (0.01 m), depth 5.0 ft (1.5 m), screened 4.5 to 5.0 ft (1.4 to 1.5 m).
DATUM.--Land-surface datum is 18.0 ft (5.5 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of 4 in (0.01 m) casing, 0.76 ft (0.23 m) above land-surface datum.
PERIOD OF RECORD.--September 1977 to current year.
EXTREMES FOR PERIOD FO RECORD.--Highest water level measured, 16.47 ft (5.02 m) NGVD, Dec. 20, 1977; lowest measured, 16.10 ft (4.91 m) NGVD, Nov. 22, 1977.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEPT 22, 1977	16.12	NOV. 22, 1977	16.10	MAY 23, 1978	16.47	AUG. 29, 1978	16.19
OCT. 13, 1977	16.14	DEC. 20, 1977	16.47	JUNE 26, 1978	16.45	SEPT 29, 1978	16.31
OCT. 26, 1977	16.16	MAY 2, 1978	16.43	JULY 25, 1978	16.13		

Table 3.--Long-term record of water levels in Connetquot Park area (continued)

Well S 65595

404711073100902. Local number, S 65595.
LOCATION.--Lat 40°47'11", long 73°10'09", Connetquot Park. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Driven observation water-table well, diameter 2 in (0.05 m), depth 3.8 ft (1.2 m), screened 2.8 to 3.8 ft (0.85 to 1.2 m).
DATUM.--Land-surface datum is 27.5 ft (8.4 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of 2 in (0.05 m) coupling inside recorder shelter, 1.0 ft (0.3 m) above land-surface datum.
PERIOD OF RECORD.--March 1978 to September 1978, continuous recorder since April 1978.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 27.16 ft (8.28 m) NGVD, Aug. 12, 1978; lowest, 26.42 ft (8.05 m) NGVD, Sept. 29, 1978.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 31, 1978	26.51	MAY 23, 1978	26.50	JULY 25, 1978	26.53	SEPT 29, 1978	26.42
MAY 2, 1978	26.43	JUNE 26, 1978	26.45	AUG. 29, 1978	26.52		

Well S 65596

404613073094701. Local number, S 65596.
LOCATION.--Lat 40°46'13", long 73°09'47", Connetquot Park. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Driven observation water-table well, diameter 2 in (0.05 m), depth 5.3 ft (1.6 m), screened 4.3 to 5.3 ft (1.3 to 1.6 m).
DATUM.--Land-surface datum is 21.2 ft (6.5 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of 2 in (0.05 m) casing, 2.04 ft (0.62 m) above land-surface datum.
PERIOD OF RECORD.--May 1978 to September 1978.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.72 ft (6.01 m) NGVD, May 18, 1978; lowest measured, 18.86 ft (5.75 m) NGVD, July 25, 1978.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 18, 1978	19.72	JUNE 26, 1978	18.94	AUG. 29, 1978	19.14		
MAY 23, 1978	19.33	JULY 25, 1978	18.86	SEPT 29, 1978	19.05		

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